JVC

SERVICE MANUAL

DIGITAL'S DOCKABLE RECORDER

BR-D40U/BR-D40E





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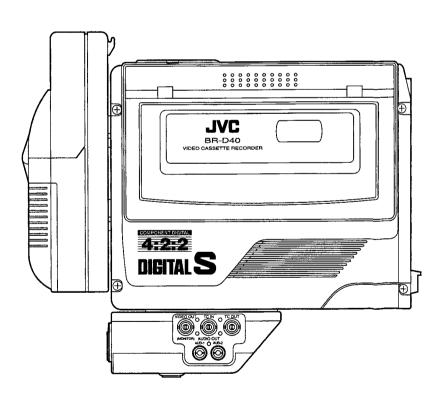


VIDEO CASSETTE RECORDER

BR-D40U/BR-D40E

INSTRUCTIONS

DIGITAL S



SAFETY PRECAUTIONS



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIREOR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This unit should be used with 12V DC only. CAUTION:

To prevent electric shocks and fire hazards, do NOT use any other power source.

NOTE:

The rating plate (serial number plate) is on the bottom of the unit.

This Class B digital apparatus meets all requirements of the canadian Interference-Causing Equipment Regulations.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmfull interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

CHANGES OR MODIFICATIONS NOT APPROVED BY JVC COULD VOID USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

OPERATION IS SUBJECT TO THE FOLLOWING TWO
CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL
INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY
INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT
MAY CAUSE UNDESIRED OPERATION



ATTENTION

RISQUE D'ELECTROCAUTION NE PAS OUVRIR



ATTENTION: POUR EVITER TOUT RISQUE D'ELECTROCAUTION NE PAS OUVRIR LE BOITIER.

AUCUNE PIECE INTERIEURE N'EST A REGLER PAR L'UTILISATEUR.

SE REFERER A UN AGENT QUALIFE EN CAS DE PROBLEME.



Le symbole de l'éclair à l'intérieur d'un triangle équilatéralest destiné à alerter l'utilisateur sur la présence d'une "tension dangereuse" non isolée dans le boîtier du produit. Catte tension est suffisante pour provoquer l'électrocution de personnes.



Le point d'exclamation à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'opérations d'entretién importantes au sujet desquelles des renseignements se trrouvent dans le manuel d'instructions.

* Ces symboles ne sont utilisés qu'aux Etats-Unis.

AVERTISSEMENT:

POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.

Ce magnétoscope ne doit être utilisé que sur du courant direct en 12V.

ATTENTION:

Afin d'eviter tout resque d'incendie ou d'électrocution, ne pas utiliser d'autres sources d'alimentation électrique.

REMARQUE:

La plaque d'identification (numéro de série) se trouve sur le pameau arrière de l'appareil.

Cet appareil numérique de la classe B respecte toutes les exigences du Réglement sur le matériel brouilleur du Canada.

WARNING ON LITHIUM BATTERY

The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat avobe 100°C (212°F) or incinerate.

Replace battery with Matsushita Electric CR2032, use of another battery may present a risk of fire or explosion.

- Dispose of used battery promptly.
- Keep away from children.
- Do not disassemble and do not dispose of in fire.

CAUTION

To prevent electric shock, do not open the cabinet. No user servicable parts inside. Refer servicing to qualified service personnel.

WARNING:

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast, or artistic work embidied therein.

Thank you for purchasing the BR-D40 video cassette recorder.

When this unit is used in a stand-alone configuration, it can play videotapes but cannot record them. To accomplish recording with this unit, it should be integrated in a unitary connection with a professional type video camera (JVC KY-19, KY-27 series, KY-D29, etc.).

DIGITALS

This unit is a DIGITAL S format video cassette recorder. Video cassette tapes which are not marked DIGITAL S cannot be used with this VCR.

MAIN FEATURES

- High picture quality thanks to the DIGITAL S format
 The 4:2:2 component digital processing of the format ensures recording and playback with high picture quality.
- High sound quality thanks to the 2-channel PCM audio High-quality digital audio with 16-bit, 48 kHz sampling is provided for 2 channels.
- Designed for direct, unitary connection with the camera
 This unit can form a camcorder system by being combined with a
 JVC professional video camera such as the KY-19, KY-27 series
 and KY-D29 for an excellent footing for newsgathering and other
 recording tasks.
- Concentrated LCD display (with back light)
 The concentrated LCD panel shows the time code and CTL count, tape remaining time, remaining battery power, audio levels, setup menus, hour meter data and a variety of warning indications. It is back-lighted to facilitate viewing under low light conditions.
- Time code reader/generator
 The built-in time code reader/generator can be used to record
 SMPTE(NTSC)/EBU(PAL) time code and user's bits.
- Time code input/output connectors for slave lock capability
 This unit can be slave-locked to an external time code generator
 which is connected to the time code input.
 The data in the built-in time code generator is output from the time
 code output terminal.
- Balanced audio input (camera/microphone/line switchable)
 Highly reliable XLR connectors are provided for audio input. Noise-proof balanced audio input ensures an enhanced sound quality.
- AEF (Automatic Edit Function) enables neat switching between scenes.
- Date/time data recording Apart from the SMPTE(NTSC)/EBU(PAL) time code area, another time code area is provided for the recording of data on the date and time of the day.
- Built-in loudspeaker for audio checking
 The input audio can be monitored in record or EE mode and the reproduced audio can be monitored in play mode.
 The loudspeaker also outputs an alarm tone in case an abnormal condition occurs with the VCR.

The following symptoms will appear when the tapes recorded on other units (including BR -D40) are recorded or played back on this machine.

- The transient section between scenes recorded on other units may appear disturbed.
- Digital noise appears during playback because of tracking errors.

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Install a lithium battery (provided) before use. See page 34 for information about how to install it.

 We cannot assume the liabilities which may derive from the impossibilities of normal recording or playback in case of failure with this VCR or the video cassette in use.

INTRODUCTION

ROUTINE AND PERIODICAL MAINTENANCE

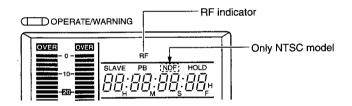
This VCR incorporates precision mechanical parts, which will collect dirt, wear out and deteriorate as the VCR is used. On the other hand, when the VCR has been used for a long period, the heads, drums and tape transport mechanisms also collect dirt deposited on them. Also, dust which penetrates the inside of the VCR specially during outdoor use will promote the wear and deterioration of mechanical parts by causing poor contact between tape and heads or failing to maintain the video and audio quality at high levels.

To prevent wear and deterioration, clean the mechanical parts using a head cleaning tape as routine maintenance. But cleaning with a head cleaning tape alone is not enough for cleaning the entire tape transport mechanism. it is also recommended to apply periodical maintenance (inspection) to prevent troubles which may be caused by the sudden occurrence of failure.

As the replacement, adjustment and servicing of parts require advanced skill and equipment, please consult the person in charge of professional video equipment at your nearest JVC-authorized service agent.

Head Cleaning

- To maintain high video and audio quality, clean the heads by using the special head cleaning tape about every 20 hours.
- Use the optional DCL-5 as the head cleaning tape.
- Do not use head cleaning tapes other than specified. Read the instructions of the head cleaning tape for its operating procedure and precautions.
- When dust is deposited on the video head of the VCR, the RF indicator lights up on the display during the back-space operation in record-pause mode. The indicator does not light up during recording.



Periodical Maintenance

Contents: Check or replace the following mechanical parts according to the running time.

Running Time	500H	1000 H	1500H	2000H
Drum ass'y (including heads)	•	•	•	•
Head cleaner	•	•	•	•
Tape guides & rollers	0	Ö	0	•
Fixed heads	0	0	☆	•
Belts & pinch rollers	0	•	0	•
Drive parts	0	0	☆	•

- The drum assembly (including O: Clean, check and adjust. heads) and the head cleaner should be replaced every 500 hours.
 - ☆: Clean and check. Replace as required. : Replace.
- The maintenance contents may be variable depending on the operating environment and method. Therefore, the above data should be considered as a reference.

Time management

The running time of the VCR can be confirmed with the hour meter display (which shows the drum running time). For details, see "HOUR METER DISPLAY" on page 34.

For consultations related to the maintenance programming or cost, please contact the person in charge of professional video equipment at your nearest JVC-authorized service agent.

PRECAUTIONS FOR PROPER USE OF THE VCR

Handling and Storage Precautions

- Avoid using or placing the VCR in places;
- subject to extreme heat or cold;
- subject to strong magnetic or electromagnetic field (Particularly, avoid using a transceiver within a distance of 2 meters from this VCR.
- · with excessive dirt or dust;
- · with high humidity or moisture;
- subject to smoke or vapor such as near a cooking stove;
- subject to strong vibrations or on an unstable surface.
- Also do not leave the VCR for long hours in a parked car under direct sunlight or near room heating equipment.
- Protect the VCR from being splashed with water (especially when shooting in the rain).
- Protect the VCR against penetration of dust when using it in a place subject to sandy dust.

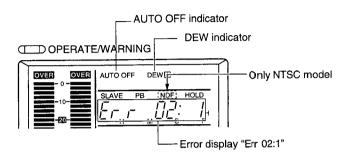
- Use the VCR in an upright position. If placed on its side, heatrelease efficiency will deteriorate, adversely affecting the tape transport.
- Do not drop or hit it against a hard object. (Special care is required to avoid shocks during transportation.)
- Remove the video cassette before transporting the VCR
- Do not insert an object other than a video cassette in the cassette insertion slot. Be sure to close the cassette cover when the VCR is not to be used for a long period
- To avoid condensation inside the VCR, do not transport it between places with a large difference in temperature.
- Do not set the POWER switch to OFF or remove the power cable during recording or playback. Otherwise the tape may be damaged.
- When the VCR is not in use, be sure to set the POWER switch in order to OFF to save power consumption.

Condensation

- When the VCR which has been cooled down completely in a cold place is carried to a warm place, the moisture contained in the warm air may attach to the head drum or tape guides and be cooled into water droplets. This phenomenon is referred to as condensation (dewing). When this occurs in a VCR, the head drum and tape guides are covered with droplets allowing the tape to be stuck to them, leading to tape damage.
- Condensation occurs in the following cases:
 - When the VCR is suddenly moved from a cold place to a warm place.
 - When the room heater has just started or when the VCR is exposed directly to cold air from the air conditioner.
 - When the VCR is placed in a very humid place.



 When condensation occurs with this VCR, the DEW and the AUTO OFF indicator on the display lights up, the error code "Err 02:1" appears on the counter display (see page 32).
 To assist this, leave the VCR with the power ON and wait until the error code "Err 02:1" and the DEW indicator disappear from the display.



VIDEO CASSETTE TO BE USED

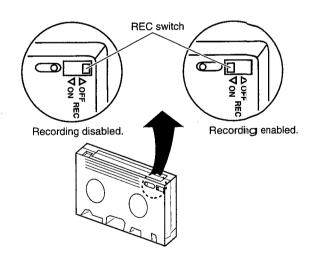
Use video cassette tapes marked with DIGITAL S for this VCR.
 Recording and playback time of the usable video cassette models is given below.

Video Cassette Tape	Record/Play Time
DS-104	Approx. 104 min.
DS-64	Approx. 64 min.
DS-34	Approx. 34 min.
DS-10	Approx. 10 min.

- Video cassettes marked with S-VHS or VHS cannot be used with this VCR. If you insert an S-VHS or a VHS cassette in the VCR, it will be ejected automatically.
- · Video cassettes cannot be used upside down.
- Avoid storing a video cassette with unevenly wound tape, as this may damage the tape. Rewind it to the beginning before placing a cassette into storage.
- After a video cassette tape has been used repeatedly, it becomes unable to maintain full performance due to an increase in noise caused by dropouts, etc. Do not continue to use a dirty or damaged tape, as this will reduce the rotary head life.

- The video cassette tape marked DIGITAL S is provided with a REC switch for use in preventing accidental erasure.
 - Slide the REC switch to OFF to protect the precious recording in the tape from being overwritten.
- To record on the tape, slide the REC switch to ON.

REC switch



BATTERY PACK TO BE USED

This VCR can use any of the following battery packs.

- JVC battery pack: NB-G1U
- Flat Shape Type battery pack
- Anton-Bauer battery pack : Trimpack 13/14 Series, Magnum 13/14 Series,

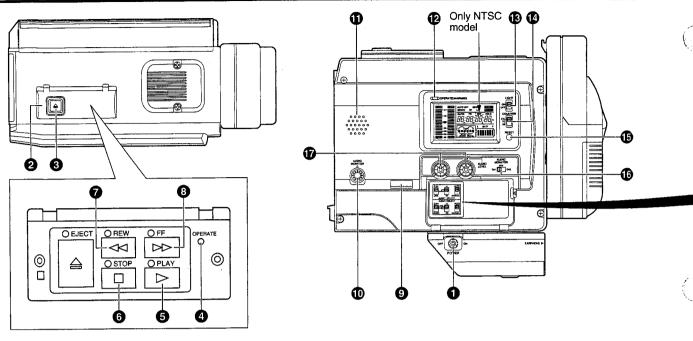
Compack 13/14 Series.

To display the remaining battery power accurately, set "BATT. TYPE SELECT" in setup menu Group 4 according to the type of the battery pack in use. (See page 21)

 An Anton-Bauer battery pack cannot be attached to this VCR directly.

An additional battery holder is required.

Battery holder: Anton-Bauer model QRQ27
 See page 17 for the battery holder attaching method.



POWER switch

Turns the main power supply ON and OFF. Set to OFF when neither the VCR nor the camera is used. When set to OFF, all the VCR and the camera operations are disabled.

2 Operation cover

When this cover is opened after setting the POWER switch to ON, the VCR enters OPERATE ON mode, in which the OPERATE indicator lights in green, the LCD display appears and the VCR is ready to be operated. Once the VCR enters OPERATE ON mode, it is maintained even after the operation cover is closed later. If a cassette tape has been inserted when the VCR enters OPERATE ON mode, the cassette tape remains in stop mode.

If the VCR is in OPERATE OFF mode even when the operation cover is open, the VCR can be put to OPERATE ON mode by pressing the OPERATE switch 4.

EJECT button

Press to eject the cassette tape. This button can be operated in any mode. It can be pressed even when the operation cover is closed. The LED indicator above the EJECT button lights up during the ejection operation.

OPERATE switch

This switch is interlocked with the operation cover. If the VCR is in OPERATE OFF mode even when the operation cover is open, the VCR can be put to OPERATE ON mode by pressing then releasing this switch.

PLAY button

Press to start playback. In play mode, the VCR outputs the video and audio signals of normal playback and the LED indicator above the PLAY button lights.

- * If the autotracking is active at the moment the play mode starts, the playback video will be interfered with digital noise. The audio output during this period is the linear track audio.
- * This button is not effective if pressed in the REC or REC PAUSE mode. Press the STOP button before pressing this button.

6 STOP button

Press to enter stop mode by stopping the recording and the tape transport. The drum keeps rotating in stop mode. However, when stop mode has continued for about 30 minutes, the VCR enters tape protect mode, in which the drum stops rotation and the tape tensioner is released. It takes more time than usual to enter the record or play mode from the tape protect mode. The LED indicator above the STOP button lights in stop and tape protect modes.

 The time until tape protect mode is initiated can be set to 1, 5 or 30 minutes with setup menu item "LONG PAUSETIME SELECT".

REW button

Press to rewind tape.

- Pressing the button in stop or fast forward mode initiates rewind mode. The LED indicator above the REW button lights in this mode.
- Pressing the button during playback or forward search initiates reverse search at about 6 times the normal play speed. The LED indicators above the PLAY and REW buttons light during reverse search.

The search audio recorded in the linear track is reproduced during reverse search.

FF button

Press to fast forward tape.

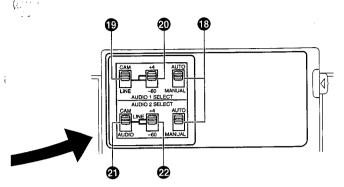
- Pressing the button in stop or rewind mode initiates fast forward mode. The LED indicator above the FF button lights in this mode.
- Pressing the button during playback or reverse search in itiates forward search at about 6 times the normal play speed. The LED indicators above the PLAY and FF buttons light during forward search.

The search audio recorded in the linear track is reproduced during forward search.

Lithium Battery Installation Case

Install a lithium battery in this case. The battery is used for the backup of the time code and the date/time data. The VCR is delivered without the battery installed. Install the lithium pattery provided (CR2032). See page 34 for information about now to install it.

[AUDIO 1/2 switch setting block]



AUDIO MONITOR control

Adjusts the volume of the monitoring loudspeaker and earphone. The audio is muted when this control is set to the minimum position.

The volume of the alarm tones can be adjusted with the ALARM control.

Monitoring loudspeaker

Enables EE monitoring of the audio signal selected with the AUDIO MONITOR switch in record, record-pause or stop mode. It also reproduces the audio recorded on tape when the VCR is in play mode. The loudspeaker volume can be adjusted with the AUDIO MONITOR control.

The audio from the loudspeaker is defeated when an earphone is plugged into the EARPHONE jack. The warning alarm tones are also output through this loudspeaker.

For details, see pages 31 and 32.

P OPERATE WARNING indicator

- This LED indicator lights in OPERATE ON mode. It lights in green while the VCR is operating normally.
- It lights or blinks in red in the case of a warning condition related to the remaining tape time, remaining battery power or other abnormal condition in the VCR.

For details, see pages 31 and 32.

LIGHT switch

Turns the display back light ON or OFF.

ON: The display is back-lighted.

OFF: The display is not back-lighted.

(Keep this switch to OFF during battery operation of the VCR or when it is required to reduce the power consumption for a certain reason.)

(A) COUNTER switch

Selects the contents displayed on the LCD counter.

CTL : Set to this position to display the CTL counter.

: Set to this position to display time codes or when presetting the time code.

: Set to this position to display the user's bits of time UB codes or presetting the user's bit.

 Time codes or user's bits can be displayed provided that the TC DISP switch in the time code/setup menu setting block is set to TC. If it is set to SUB TC, the date and time data is displayed in its place.

® RESET button

- Press to reset the CTL counter value.
- · Pressing the button during time code or user's bit presetting operation resets the time code or user's bit data to "00:00:00:00".

MAUDIO MONITOR switch

Selects the audio channel to be output at the loudspeaker and earphone jack.

DA1: Set to this position to monitor the Digital Audio 1 channel.

MIX: Set to this position to monitor the mixed sound of the Digital Audio 1 and 2 channels.

DA2: Set to this position to monitor the Digital Audio 2 channel.

10 AUDIO LEVEL control

Adjusts the audio recording level of the Digital Audio 1 or 2 channel when the AUTO/MANUAL switch (1) in the AUDIO 1/2 switch setting block is set to MANUAL.

Adjust so that the sound level meter peak does not exceed -5dB when large sounds are input.

* The DA-2 AUDIO LEVEL control does not take effect when the AUDIO2 INPUT SELECT switch 2 is set to AUDIO1.

AUTO/MANUAL switches

Select the method for adjusting the recording level of the Digital Audio 1 and 2 channels.

AUTO

: The audio recording level is held at the reference level even when sounds greater than the reference input level are input.

The recording level does not increase when the

input level is low.

MANUAL: The audio recording level of each channel can be adjusted with the AUDIO LEVEL control.

1 AUDIO 1 INPUT SELECT switch

Selects the input signal to be recorded in the Digital Audio 1 channel.

CAM: Receives the audio signal of the camera microphone through the camera connector (50-pin).

LINE: Receives the audio signal input through the AUDIO 1 input connector. The reference audio input level can be selected with the AUDIO 1 INPUT LEVEL switch 20.

1 AUDIO 1 INPUT LEVEL switch

Selects the line input level of the Audio 1 channel between +4 dB and -60 dB.

4 AUDIO 2 INPUT SELECT switch

Selects the input signal to be recorded in the Digital Audio 2 channel.

CAM

: Receives the audio signal of the camera microphone through the camera connector (50-pin). Set to this position when the camera uses a stereo microphone.

• The audio is not input if this position is used with a monaural camera microphone.

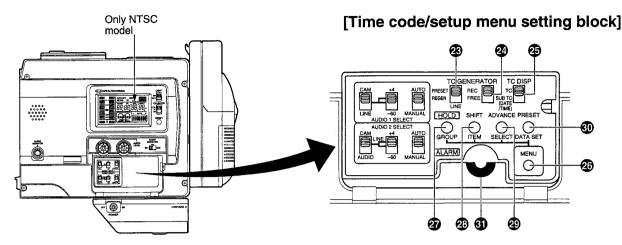
LINE

: Receives the audio signal input through the AUDIO 2 input connector. The reference audio input level can be selected with the AUDIO 2 INPUT LEVEL switch 3.

AUDIO 1: Receives the audio signal selected with the AUDIO 1 INPUT SELECT switch also in the Digital Audio 2 channel. Set to this position when the camera uses a monaural microphone.

2 AUDIO 2 INPUT LEVEL switch

Selects the line input level of the Audio 2 channel between +4 dB and -60 dB.



Time code generator setting switches

2 PRESET/REGEN switch

Selects the time code generator mode between PRESET and REGEN.

PRESET: Preset mode. Set to this position when newly presetting and recording the time code. Also use this position when the camera is to be slave-locked to an external time code generator connected to the TC IN connector.

REGEN: Regeneration mode, in which the VCR reads existing time codes on the tape and records time codes by succeeding them. Set to this position when you want to connect additional time codes to a tape in which time codes have already been recorded as far as the middle.

2 REC/FREE run switch

Selects the time code running mode while the time code generator is in preset mode. This switch is not effective in the REGEN mode.

REC: The time code runs only during recording. This position allows you to record continual time codes when recording scenes one after another.

FREE: The time code runs permanently. Set to this position when the VCR is slave-locked with an external time code generator.

 If this position is used when recording scenes one after another, the time codes become discontinuous at the change points between scenes.

25 TC DISP switch

When the COUNTER switch (1) is set to TC or UB, it selects the type of time code to be displayed on the counter display.

TC: Ordinary time codes or user's bits are displayed.

SUB TC: Data in another time code area (sub-time code area)

is displayed. This VCR records the date and time data in this area.

For details, see "SUB-TIME CODE" on page 29.

29 MENU button

Press to initiate setup menu mode.

In setup menu mode, the MENU indicator lights on the display and the counter display transforms to the menu display. Pressing this button in setup menu mode returns to the normal mode.

M HOLD/GROUP button

- Press when presetting the time code or user's bit. The presently
 displayed data is held (the HOLD indicator lights on the display)
 and the leftmost digit of the counter blinks. Pressing this button
 during time code or user's bit presetting cancels the operation
 and recalls the previous display contents.
- In setup menu mode, this button is used to select the menu group.

28 SHIFT/ITEM button

- During time code or user's bit presetting, press to select the digit to be set. Each press of the button shifts the digit to be set (which blinks) to the right.
- In setup menu mode, this button is used to select the menu item.

ADVANCE/SELECT button

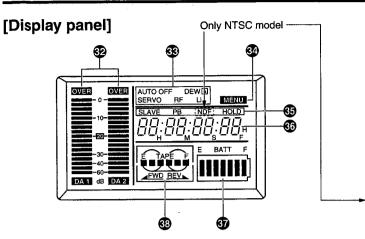
- During time code or user's bit presetting, press to select the value of the digit to be set. Each press of the button increases the number by 1.
- In setup menu mode, this button is used to select the value of a menu item.

1 PRESET/DATA SET button

- During time code or user's bit presetting, press to save the set value in the preset memory. The set time code or user's bit will be preset in the time code generator.
- In setup menu mode, this button is used to save the menu item setting the data in the memory.
- For details of the time code or user's bit presetting, seepage 27.
- For details on the setup menus, see page 20.
- The buttons from ② to ③ above are also used in setting the date and time of SUBTC data. For the date and time setting, see page 30.

3 ALARM control

Turn to control the volume of the alarm tone which is output from the monitoring loudspeaker or earphone in case of a warning or other abnormal condition occurring with the VCR. Turn this control as counterclockwise to dawn the volume. Setting this control to the minimum position mutes the alarm tone.



2 DA 1/DA 2 audio level meters

These are the signal level meters for the Audio 1 and 2 channels. They show the input audio signal levels when the VCR is in EE or record mode. When it is in play mode, they show the audio reproduction level of the audio recorded on the tape. The peak levels are held for about 2 seconds.

Warning indicators

■ AUTO OFF indicator

Lights when a non-recoverable error (e.g. tape winding error, drum stopped, etc.) occurs with the VCR. This indicator also lights if condensation occurs.

For details, see "TROUBLES WITH ERROR CODE OUTPUTS" on page 32.

■ DEW indicator

Lights when condensation (dewing) occurs on the drum or other mechanism in the VCR.

The VCR reject all operations while this indicator is lit. When the condensation has disappeared, the indicator turns off and the VCR accepts operations again.

■ SERVO indicator

Lights when the drum servo is troubled during recording to indicate that normal recording is not being made.

■ RF indicator

Lights when the video head is clogged.

The head clog is detected during back-space between different scenes. Note that it is not detected during recording.

 Should this indicator light up, clean the head using the special head cleaning tape.

See the manual for the head cleaning tape (DCL-5) which is specifically made for this unit.

■ Li indicator

This is the lithium battery indicator which lights when the lithium battery which backs up data of the built-in time code generator is nearly exhausted and indicate the necessity of replacement. See page 34 for information about how to replace lithium batteries.

MENU indicator

Lights up when the VCR is put to setup menu mode by pressing the MENU button.

35 Time code-related indicators

■ SLAVE indicator

This is the slave lock indicator which lights when the built-in time code generator is slave-locked (synchronized) with the LTC time code signal input at the TC IN connector. For the slave lock of the time code, see page 28.

■ PB indicator

This is the time code playback indicator which lights when the time code is in playback mode.

■ NDF indicator (Only NTSC model)

This is the non-drop frame indicator which lights when the framing mode of the built-in time code generator or the reproduced time code in play mode is in the non-drop frame mode.

This indicator does not light in drop frame mode.

• It lights permanently when the CTL counter is in use.

■ HOLD indicator

Lights when the time code generator display is held by pressing the HOLD button in the time code setting block.

The time code or user's bit can be preset while this indicator is lit.

6 Counter display

- Usually, this section shows the data of the CTL counter, time code or user's bit. The display mode can be selected with the COUNTER switch.
- When the COUNTER switch is set to TC or UB:
 The date and time data can be displayed by setting the TC DISP switch to SUB TC.
- This section shows the setup menu data when the VCR is set to the setup menu mode by pressing the MENU button.
 The setup menu also includes the hourmeter (drum usage).
- This section shows an error code when an abnormal condition occurs with the VCR.

For details on the counter display, see page 12.

3 Remaining battery power indicator

Shows the remaining battery power with a 7-dot segment bar display.

 To display the remaining battery power accurately, set the setup menu item "BATT. TYPE SELECT" according to the type of the battery pack in use.

For details on the remaining battery power display, see page 12.

Cassette/tape direction/remaining tape time indicators

Cassette tape



: Lights when the VCR is loaded with a cassette tape. Blinks during ejection or tape loading.

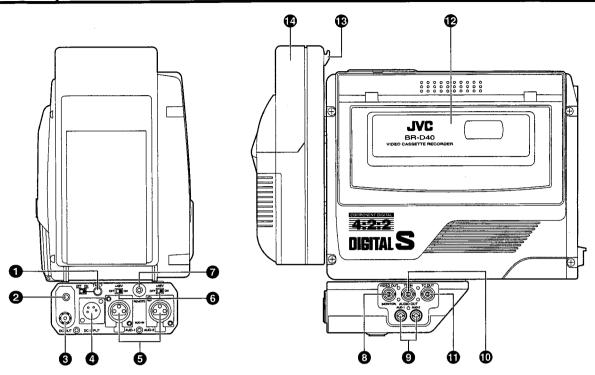
• Tape direction

: One of the indicators lights according to the tape transport direction.

Remaining tape
 E TAPE F

: The remaining tape situation is shown with a 6-dot segment bar display.

For details on the remaining tape display, see page 12.



TALLY lamp/switch

- When the TALLY switch is set to ON, the tally lamp lights when the VCR is in record mode. It blinks during transition to record mode.
- The tally lamp also blinks when an abnormal condition occurs with the VCR.
 - For details, see pages 31 and 32.
- When the TALLY switch is set to OFF, the tally lamp does not light or blink even in the above cases.

2 EARPHONE jack

This is a stereo mini-jack for use in connecting an audio monitoring earphone. Plug in a 3.5 mm dia. earphone or headphone plug.

The earphone can also be used to monitor alarm tones depending on situations.

The sound from the monitoring loudspeaker is interrupted when an earphone is connected here.

O DC OUT connector

Power output connector to a wireless microphone transmitter, etc. The supply voltage is identical to the voltage supplied to the VCR (DC 12V \Longrightarrow max. 0.1 A).

4 DC INPUT connector (XLR 4-pin)

Power input connector for 12 V DC. Connect with the optional AA-G10 battery charger.

When a cable is connected here, the power supply from the battery pack is interrupted and the source is switched to the power supplied through this connector.

6 AUD-1 AUD-2 IN connectors (XLR 3-pin)

The Audio 1 and 2 channel input connectors function as the line inputs for connecting external audio equipment including a microphone. Set the AUDIO INPUT SELECT switch and AUDIO INPUT LEVEL switch according to the connected equipment.

6 REMOTE connector

Connect with equipment which can remote control the start and stop of recording (e.g. Sony RM-81).

+48V switch

Switches the +48 V power for a phantom microphone ON/OFF.

3 VIDEO OUT connector (BNC)

Composite video output connector.

It outputs the video signal from the camera in record or EE mode.

It outputs the video signal reproduced from the tape in play mode.

- · No compensation is made for the setup level.
- The setup menus, time codes and date/time data are not output.

AUDIO OUT connectors (RCA)

Analog audio output connectors, which output the audio signal from the camera in record or EE mode and the audio signal reproduced from the tape in play mode.

The alarm tone is not output.

TC IN connector (BNC)

Input connector for the SMPTE(NTSC)/EBU(PAL)-standard LTC signal. The built-in time code generator can be slave-locked with the input time codes.

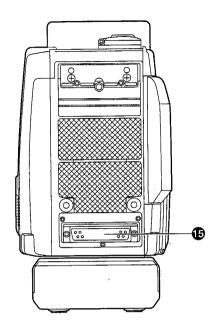
For the slave lock of time code, see page 28.

TC OUT connector (BNC)

Output connector for the LTC signal from the built-in time code generator.

The time code recorded on the tape is not output in play mode.





Cassette cover

When the VCR is in OPERATE ON mode, pressing the EJECT button on the top of the VCR opens this cover so that a cassette tape can be inserted or removed from the VCR. The cover can be locked automatically by pushing and closing it.

 To prevent penetration of foreign objects in the VCR, do not leave the VCR with the cassette cover open.

Battery case release button

Push to unlock the battery case cover. The battery case cover should be opened while pushing this button.

Battery case

Load a Flat Shape Type battery pack or the JVC NB-G1U battery pack.

For details, see "ATTACHING THE BATTERY PACK" on page

(D-sub 50-pin)

For connection with the 50-pin connector of the camera to be connected.

The power supplied to the camera is 12 V at max. 1.7 A (max. 20 W).

 It is not possible to connect the RM-G410 editing control unit to this VCR.

CONNECTOR PIN LAYOUTS

Camera Connector (50-pin)



No.	Signal	No.	Signal
1	+5V	33	GND
5	POWER GND	35	GND
6	POWER GND	36	B-Y IN
13	VTR ID OUT	38	PB(L) OUT
15	MIC1 GND	39	POWER SUPPLY (12V)
16	MIC1 (C)	40	POWER SUPPLY (12V)
17	MIC1 (H)	41	YIN
18	RETURN VIDEO OUT	42	GND
22	MIC2 GND	43	COMPOSITE VIDEO IN
23	MIC2 (C)	45	CAMERA ID IN
24	MIC2 (H)	46	S-VHS(L) OUT
25	SAVE CONTROL IN	47	SERIAL DATA IN
26	RETURN SW IN	48	VTR STATUS OUT
27	VTR START/STOP	49	REC TALLY OUT
29	R-Y IN	50	WARNING SIG OUT
32	RETURN AUDIO OUT		

Other pins are not used by this VCR.

AUD-1/AUD-2 IN Connectors (XLR 3-pin)



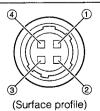
	NO.	Signal
	1	GND
ĺ	2	HOT
	3	COLD

DC INPUT Connector (XLR 4-pin)



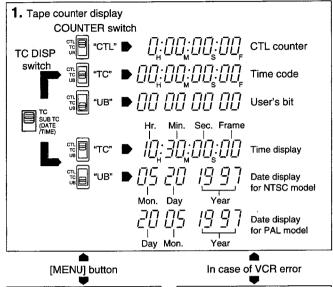
N	D.	Signal
(1		GND
(2		_
(3		
(4	9	+ 12V

DC OUTPUT Connector



NO.	Signal
1	GND
2	
3	
4	+12V (Fower through)

COUNTER DISPLAY CONTENTS



2. Setup menu setting display

Error code display



3. Hour meter display 1:4-.02 00+

Remaining Tape Time Display

The 6-dot segment bar display shows the remaining tape time in record and play modes. The lighted segment bars decrease as the remaining tape decreases.

The reference tape time is as shown below. (■: Lighted. Shows: blinked.

Ë TAPE F	Near the beginning of tape	
E TAPE	More than 25 minutes of remaining tape. ("F" extinguished.)	
E TAPE ■■□□□□	10 to 15 minutes of remaining tape. (This display represents the beginning of the tape in the case of DS-10.)	
E TAPE ■□□□□□	2 to 5 minutes of remaining tape.	
E TÀPÉ :	Less than 2 minutes of remaining tape. (The last dot and "TAPE" blink.)	
TAPE	End of tape. ("TAPE" and "E" blink.)	

- . When the tape has ended completely, a warning is provided by an alarm tone, etc.
- The remaining tape information is not displayed when no cassette tape is loaded or during the remaining tape calculation which takes place immediately after a cassette tape is inserted.

The counter display shows the following 4 types of information.

1. Tape counter display

The counter display usually functions as a tape counter (hour. minute, second, frame). It can be switched to a CTL counter, time code or user's bit display by using the COUNTER switch. (Provided that the TC DISP switch is set to TC)

• CTL counter : Time between -9 hr. 59 min. 59 sec. 29(NTSC)/24(PAL) frames and 9 hr. 59 min. 59 sec. 29(NTSC)/24(PAL) frames can be displayed. The run mode is fixed at the non-

drop frame mode.

: Time between 0 hour and 23 hr. 59 min. 59 • Time code sec. 29(NTSC)/24(PAL) frames can be

displayed.

· User's bit : Hexadecimal number from 00 to FF is

displayed in 8 digits.

By setting the TC DISP switch under a cover on the side panel to SUBTC, the time and date data can be displayed here.

· When the COUNTER switch is set to

TC: The time (hour, minute, second, frame) is displayed.

UB: The date (month, day, year) is displayed.

· Press the MENU button to switch to the setup menu setting display.

2. Setup menu setting display

This display is used when setting the setup menus. After having set the setup menus, press the MENU button to return to the tape counter display.

For details, see "SETUP MENUS" on page 20.

3. Hour meter display

The hour meter is displayed in the setup menu Group 1. The hour meter data refers to the head drum running time.

4. Error code display

The error code is displayed automatically in case an abnormal condition occurs with the VCR.

For details of error codes, see "TROUBLES WITH ERROR CODE OUTPUTS" on page 32.

Remaining Battery Power Display

The 7-dot segment bar display shows the remaining battery power. The lighted segment bars decrease as the remaining battery power decreases.

- · To display the remaining battery power accurately, set the setup menu item "BATT. TYPE SELECT" according to the type of the battery pack in use.
- The menu has been set for a Flat Shape Type battery pack (12V) or the JVC NB-G1U when the VCR left the factory.



All segment bars light when a fully-charged battery pack is attached.



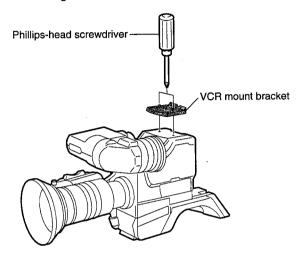
The last 2 segment bars and "BATT" start to blink when the battery is nearly exhausted. Replace with a fully-charged battery pack.



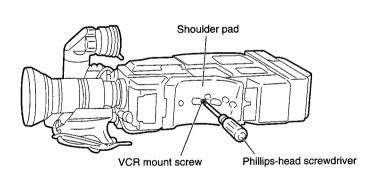
When the battery capacity has run out, "E" and "BATT" blink and the VCR stops operation automatically. It will enter the OPERATE OFF mode.

UNITARY CONNECTION WITH CAMERA

- Separate the camera adapter from the camera and attach the shoulder pad.
 - With the KY-27 or KY-D29 camera, the VCR mount bracket has been removed before attaching the camera adapter.
 Attach the removed VCR mount bracket again before connecting the camera with this VCR.

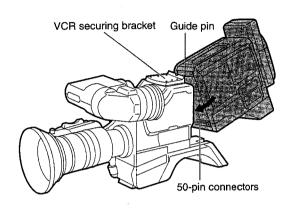


Insert a Phillips-head screwdriver through the hole on the camera shoulder pad and fasten the VCR to the camera by turning the VCR mount screw.

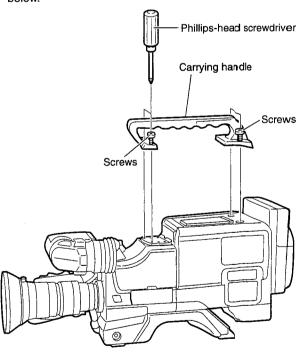


- * Use M4 screws as VCR mounting screws. Ensure that the installation length to the VCR is no longer than 4 mm.
- * For the JVC camera, use the screws supplied with the camera.

2. Connect the 50-pin connectors of the BR-D40 and camera by aligning and fitting the guide pin of the BR-D40 into the Vgroove on the VCR mount bracket of the camera.



4. Fasten the provided carrying handle with 4 screws as shown below.

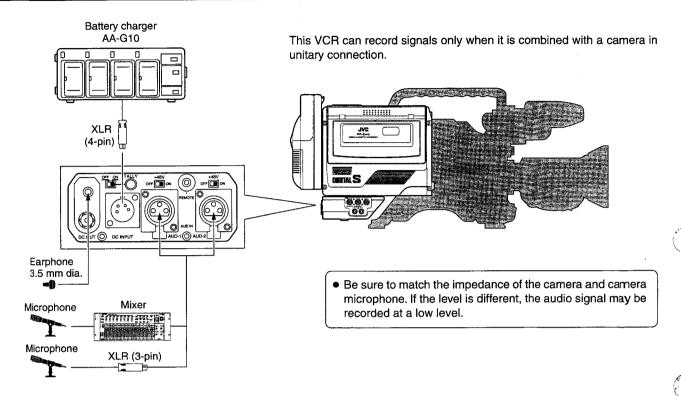


CAUTION

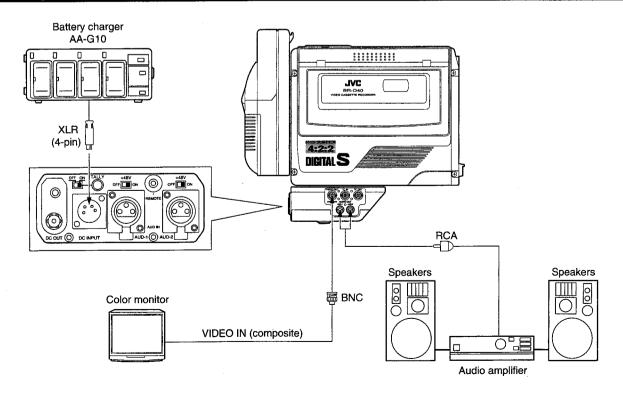
Tighten the screws securely. Otherwise the VCR may drop from the camera during use.

SYSTEM CONNECTIONS

For Recording



For Playback



POWER SUPPLY

The power of the VCR can be supplied from the following sources.

1. AC operation

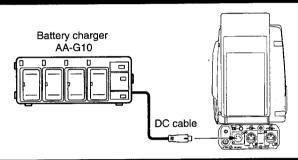
Use the JVC AA-G10 battery charger (max. rated output 4 A, 12 V DC) as the AC power supply.

2. Battery operation

Usable battery packs

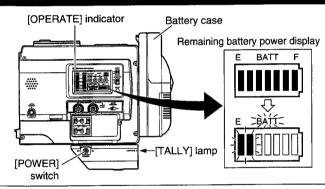
- JVC battery pack : NB-G1U
- Flat Shape Type battery pack
- · Anton-Bauer battery pack
 - : Trimpack 13/14 Series, Magnum 13/14 Series, Compack 13/14 Series
- When using an AA-P250 as the AC power source, use a camera whose power consumption is less than 13W.
- Do not use any power source with large fluctuations in the power source voltage as with ripples or other noise.
- An Anton-Bauer battery pack cannot be attached to this VCR directly.
 - An additional battery holder is required.
- Battery holder: Anton-Bauer model QRQ27
 See page 17 for the battery holder attaching method.

AC OPERATION USING THE AA-G10 BATTERY CHARGER



- After making sure that the power switches of the VCR and of the AA-G10 are set to OFF, connect the DC cable from the AA-G10 to the DC INPUT connector of the VCR as shown in the illustration.
- **2.** Push the VCR switch of the AA-G10 to ON then press its POWER button to ON.
- **3.** Press the POWER switch of the VCR to ON. Now power is supplied to the VCR as well as the camera.
 - To use the VCR, put it in OPERATE ON mode (see page 18).
 - For details, read the instruction manual of the AA-G10.

BATTERY OPERATION



Recharging the NB-G1U Battery Pack

The NB-G1U battery pack should be recharged using the AA-G10 or AA-P250 battery charger. The AA-G10 battery charger can recharge up to four NB-G1U units successively.

Recharging procedure (for AA-G10)

Battery packs are recharged in sequence by spending 60 to 90 minutes for each. Finally, they are topped up simultaneously by normal recharging for 1 hour.

- Be careful against over-charging. The battery pack should be discharged completely before being recharged.
 If a battery pack is recharged before it has been completely discharged, the available operating time may be reduced.
 - **Battery Caution**
 - Do not leave a battery pack under high temperatures (e.g. in a car under direct sunlight). Otherwise battery fluid leakage or shortening of the service life may result.
 - When a battery pack is used in a cold environment (below 10°C), the operating time is reduced even with a fully-charged battery pack.
 - If the available operating time with a fully-charged battery pack decreases considerably, it is a sign that the service life of the battery pack is almost ending. Purchase a new battery pack in this case.

- **1.** Attach a fully-charged NB-G1U or other Flat Shape Type battery pack onto the battery case.
 - For the attaching method, see page 16.
 - An Anton-Bauer battery pack cannot be attached to the battery case of this VCR.
- Set the POWER switch of the VCR to ON. Now power is supplied to the VCR and camera.
 - To use the VCR, put it in OPERATE ON mode (see page 18).
 - When the DC cable is connected to the DC INPUT connector, the power supply from the battery pack is interrupted and the power starts to be supplied through the DC INPUT connector.

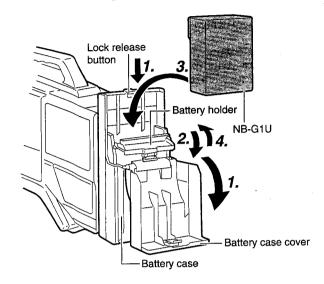
Remaining battery power display

The remaining battery power can be confirmed on the LCD (see page 12).

- When the battery power is nearly exhausted, the last 2 segment bars and the "BATT" indicator of the remaining battery power display blinks, and the OPERATE indicator and TALLY lamp blink in red.
 When the above blinking starts, replace the battery pack with a
 - fully-charged battery pack as soon as possible.
- If the same battery pack continues to be used after the blinking has started, the VCR eventually stops operation and enters the OPERATE OFF mode.
- To display the remaining battery power accurately, set the setup menu item "BATT. TYPE SELECT" according to the type of the battery pack in use. This item has been set at the factory to either the NB-G1U or the Flat Shape Types (12VDC).
- When the VCR is used in an unitary connection with the KY-27 camera, about 30 minutes of battery operation is possible using a NB-G1U battery pack (at an average current of 2.2 A/hr). However, this period is merely a reference value and variable depending on the age, running time and the recharging condition of the battery pack. For example, the available operating time may be reduced when zooming is used frequerally.

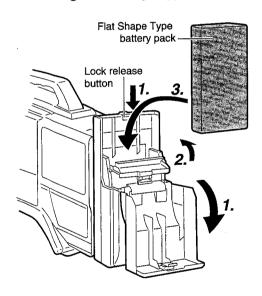
ATTACHING THE BATTERY PACK

Attaching the NB-G1U Battery Pack



- Open the battery case cover while pushing the lock release button.
- **2.** Tilt the battery holder in the arrow-indicated direction.
- **3.** Insert the battery pack into the battery case with its electrodes facing the VCR.
- **4.** Close the battery holder in the arrow-indicated direction and close the battery case cover.
- To avoid damage to the battery holder, be sure to close the battery holder before closing the battery case cover.
- Turn the power of both the VCR and camera OFF before replacing the battery pack.

Attaching a Flat Shape Type Battery Pack



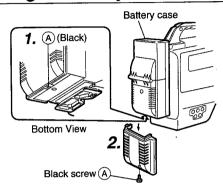
- Open the battery case cover while pushing the lock release button.
- 2. Tilt the battery holder in the arrow-indicated direction.
- **3.** Insert the battery pack into the battery case with its electrodes facing the VCR.
- **4.** Close the battery case cover.
- Turn the power of both the VCR and camera OFF before replacing the battery pack.

ATTACHING AN ANTON-BAUER BATTERY PACK

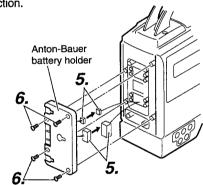
When an Anton-Bauer battery pack (Trimpack 13/14, Magnum 13/14, Compack 13/14 Series) is used, it is required to remove the battery case from the VCR and attach the Anton-Bauer battery holder in place. Use the battery holder model described below.

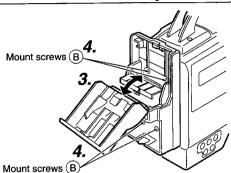
• Battery holder: Anton-Bauer model QRQ27

Removing the Battery case from VCR and Attaching Anton-Bauer Battery Holder In Place



- 1. Remove the black screw (A) from the bottom of the battery case.
- 2. Remove the lower half of the battery case cover in the downward direction.



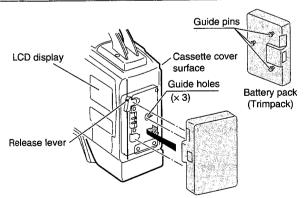


- **3.** Open the battery cover and battery holder.
- **4.** Remove the 4 mount screws (B), disconnect the connectors between the VCR and the battery cover, and separate the battery case from the VCR.

Attaching the Anton-Bauer battery holder

- 5. Connect the connectors from the VCR and those of the battery holder (connect 2 pairs of connectors including the large and small ones).
- **6.** Secure the battery holder onto the VCR using the 4 mount screws supplied with the battery holder.
- Be careful not to pinch the connector wires; otherwise a malfunction may result.

Attaching/Detaching Anton-Bauer Battery Pack

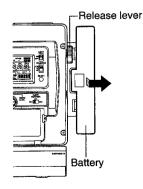


Attaching the battery pack

Align the 3 guide pins of the battery pack with the guide holes on the battery holder, and push straight to insert the battery pack. The battery cannot be attached properly if the guide pins are not inserted straight.

- 2. Slide the battery pack toward the side panel where the cassette cover is located until it clicks.
 - → Now the battery pack has been attached.

Detaching the battery pack



■ While pushing and holding the release lever, slide the battery pack toward the side panel where the LCD display is located, then pull the battery pack outward to remove.

PREPARATION

SWITCHING OPERATE ON/OFF

The VCR operations are possible only when it is in OPERATE ON mode.

The VCR can be put to OPERATE ON mode in two ways.

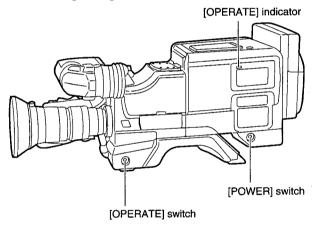
1. Set the POWER switch of the VCR to ON.



Switching OPERATE ON from the camera

 $oldsymbol{2}_{oldsymbol{ \cdot }}$ Set the Operate switch of the camera to "VTR STBY".

The VCR enters OPERATE ON mode and the OPERATE indicator lights in green.



If a recordable cassette tape has been loaded in the VCR, the VCR enters the record-pause mode (provided that the REC switch on the cassette tape is set to ON).

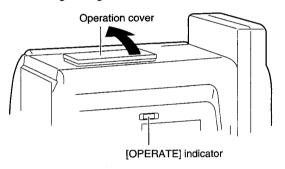
To return to OPERATE OFF mode

- Set the OPERATE switch of the camera to "VTR SAVE".
- → The VCR enters OPERATE OFF mode and the OPERATE indicator turns off.

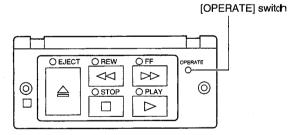
Switching OPERATE ON from the VCR

2. Open the operation cover.

The VCR enters OPERATE ON mode and the OPERATE indicator lights in green.



- · Switching the power ON with the operation cover open will activate the OPERATE ON mode.
- ■Press the OPERATE switch if the VCR does not enter OPERATE ON mode even when the operation cover is opened.



3. The VCR remains in OPERATE ON mode even after the operation cover is closed.

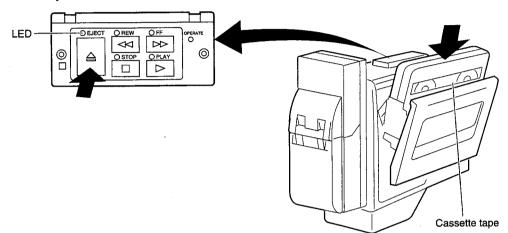
To return to OPERATE OFF mode

In stop mode or after ejecting the cassette, set the POWER switch of the VCR to OFF.

CASSETTE LOADING AND UNLOADING

A cassette tape can be loaded in or unloaded from the VCR while it is in OPERATE ON mode. These operations are not possible in OPERATE OFF mode.

- · Use a video cassette tape marked DIGITAL S.
- A S-VHS or VHS video cassette tape cannot be used with this VCR. If you insert a S-VHS or VHS cassette in the VCR, it will be ejected automatically



Loading the Cassette

1 Press the EJECT button to open the cassette cover. The LED indicator above the EJECT button lights and the cassette cover opens.

Insert a cassette tape after removing the tape slack.

Slowly close the cassette cover by pushing it in all the way. The tape is loaded automatically when the cassette cover is closed.



The cassette indicator on the display blinks during tape loading and lights steadily after the loading has been completed.

 The condition at the completion of loading is variable depending on the OPERATE switch of the camera and the REC switch on the back side of the cassette tape as shown below.

OPERATE switch	REC switch of Cassette Tape			
of Camera	ON	OFF		
VTR STBY	Enters record-pause mode after back-spacing.*	The VCR enters stop mode.		
VTR SAVE or when camera is not connected	The VCR enters stop mode.			

- It is possible to start recording from the record-pause mode by pressing the VTR Start/Stop button of the camera.
 For the recording procedure, see page 23.
- After the cassette cover is closed, it takes about 10 seconds before the VCR can start recording or enter the stop mode.

CAUTION -

When closing the cassette cover, be sure to push it in all the way. When the cassette cover is not closed completely, it is left in a half-locked state, in which the VCR accepts no operation. In this case, push the cover again all the way to get it locked firmly. When the cassette is in place and the cassette cover is only half-locked, the OC cassette indicator in the LCD display will not appear. When the cassette cover is properly locked, the indicator is displayed.

Unloading the Cassette

- 1. Press the EJECT button.
- → The LED indicator above the EJECT button lights and tape ejection starts.



The cassette indicator on the display blinks during tape ejection and turns off after the ejection has been completed.

It takes a few seconds before the cassette cover opens after the EJECT button is pressed.

- 2. Take out the cassette tape.
- **3.** Close the cassette cover.

CAUTION -

Do not leave the VCR for a long period with the cassette cover open.

Otherwise dirt or other foreign objects may enter the VCR, and cause malfunction.

SETUP MENUS

The setup menus can be set by referring to the counter display of the VCR. The set contents are stored in the memory and held even after the power is switched OFF.

SETUP MENU CONFIGURATION

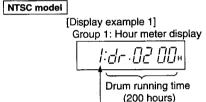
Item

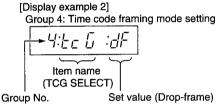
Item

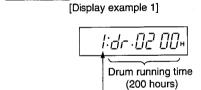
The setup menus are divided into 4 groups. Groups 1, 2 and 3 consist of display-only items such as the hour meter display, while Group 4 contains some items which can be set individually as required.

> : Selection of long pause time (1 min./5 min./30 min.) : Selection of low-frequency cutting of audio input signals (OFF/ON/CH1 only/CH2 only)

DISPLAYING AND SETTING SETUP MENUS



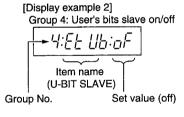


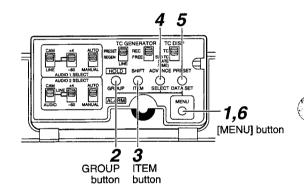


Group No.

Group No.

PAL model





- Enter setup menu mode. Press the MENU button.
- → The MENU indicator lights on the display and the counter display shows the setup menu.
- 2. Select the group.
 Press the GROUP UP button.
 - The group No. shown on the counter display changes.
 - Each press of the GROUP button changes the displayed group No. from Group 1 Group 2 Group 3 Group 4 Group 1....
 - To exit from setup menu mode after simply confirming the display in Group 1, 2 and/or 3, press the MENU button now. The VCR returns to normal mode.
 - Proceed to the following steps when you want to confirm or set the setup menus in Group 4.
- 3. Select a Group 4 item. Press the ITEM button
- The setup menu item shown on the counter display changes.
- Pressing the ITEM button when the Group 1,2 or 3 display is shown does not change it.

- **4.** Select the setting value of the selected setup menu item. Press the SELECT button to select the setting value.
 - Repeat steps 3 and 4 above for each of the items you want to set.
- **5.** Save the setting value. Press the DATA SET button.
- → "SAVE" is displayed on the counter and the setting value is saved in the VCR memory. The counter display returns to the setup menu display when data has been saved.
- 6. Quit setup menu mode.
 Press the MENU button.
 The VCR returns to normal mode.
 - If setup menu mode is quitted without saving the setting value changed with the SELECT button, "Abort" is displayed on the counter display for about 3 seconds.
 To display the previously operated setup menu again, press the MENU button again while "Abort" is displayed.

20

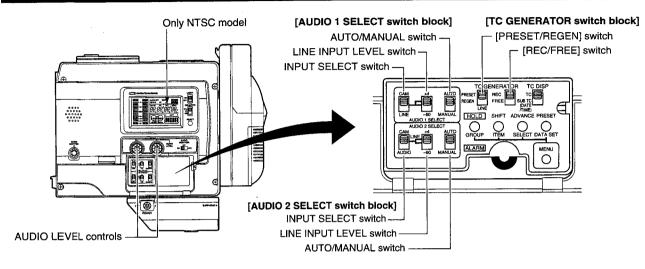
SETUP MENU CONTENTS

Group No.	Setup Menu Name	Counter Display	Contents	
1	DRUM HOUR METER	1:dr :02 00+	Shows the accumulated running time of the head drum. (200 hours in this example)	
2	TAPE REMAIN	2:Er-00:30	Shows the remaining tape time in "hours:mins.". (30 minutes)	
3	BATTERY VOLTAGE	3:6E · 12·5u	Battery voltage in V. (12.5 V)	
4	ITEM TCG SELECT DROP/NON-DROP [Only NTSC model]	4:Ec 5 :dF \$ nF	Selects time code generator framing mode between drop frame and non-drop frame mode. dF: Built-in TCG runs in drop frame mode. Use this setting when recording time is important. nF: Built-in TCG runs in non-drop frame mode. Use this setting when frame count is important. Factory setting: nF (Non-drop frame mode)	
	U-BIT SLAVE ON/OFF	4:EE Ub:an \$ aF	Selects whether user's bits are also slave-locked when the VCR is slave-locked to an external TCG. on: Slave locked. oF: Not slave locked. Factory setting: oF (Not slave locked)	
	BATT.TYPE SELECT	4:6A EE: 12 - 13 14	Set according to the type of battery pack in use. 12: 12 V (Set when using the NB-G1U or a 12 VDC Flat Shape Type battery pack.) 13: 13.2 V (Set when using Anton-Bauer Trimpack 13, Magnum 13 or Compack 13.) 14: 14.4 V (Set when using Anton-Bauer Trimpack 14, Magnum 14 or Compack 14.) Factory setting: 12 (12 V) If this setting is wrong, the remaining battery power display and the battery alarm will not function properly. When powered through the DC input connector, the setting is fixed at 12 V.	
	LONG PAUSE TIME SELECT	4:Ln GP:0 1- 05 30	Sets the time before the VCR in record-pause or stop mode enters the tape protect mode (in which the drum stops rotation). 1: 1 minute 5: 5 minutes 30: 30 minutes Factory setting: 30 (30 minutes)	
	AUDIO LOW CUT-IN SELECT	4:Lc Ut:of + 0,0	Selects if low frequency cutoff is applied to audio input signals. Set to ON to reduce microphone wind noise, etc. oF: Both Audio 1/2 CH OFF. on: Both Audio 1/2 CH ON. 01: Only Audio 1 CH ON. 02: Only Audio 2 CH ON. Factory setting: oF (OFF)	

RECORDING

The VCR cannot enter record mode alone. It can enter record mode only when it is connected with a camera.

SWITCH SETTINGS FOR RECORDING



Selecting the audio input signals

The AUDIO 1 and AUDIO 2 INPUT SELECT switches can select the input signals independently for the Audio 1 and 2 channels.

AUDIO 1 INPUT SELECT switch

CAM: Receives the audio signal of the camera microphone.

: Receives the audio signal input through the AUDIO 1 LINE input connector.

AUDIO 2 INPUT SELECT switch

CAM

- : Receives the audio signal of the camera microphone. Use this position when the camera uses a stereo microphone.
- The audio is not input if this position is used with a monaural camera microphone.

LINE

: Receives the audio signal input through the AUDIO 2 input connector.

- AUDIO 1: Receives the audio signal selected with the AUDIO 1 INPUT SELECT switch also in the Digital Audio 2 channel. Use this position when the camera uses a monaural microphone.
 - Adjust the LINE INPUT LEVEL switch and AUDIO LEVEL controls for the AUDIO 1 channel. The AUDIO LEVEL controls for the AUDIO 2 channel should be ignored.

Setting the LINE input level

When the LINE input is selected for the Audio 1 or 2 channel, the reference input level can be set according to the audio equipment connected to the AUDIO 1 or AUDIO 2 input connector.

The AUDIO 1 and AUDIO 2 INPUT LEVEL switches can set the reference input levels of respective channels to +4 dB or -60 dB.

Selecting the recording level adjustment methods

The AUTO/MANUAL switches can select the recording level independently for the Audio 1 and 2 channels.

AUTO

- : When sounds greater than the reference input level are input, the recording level is held at the reference level. The recording level does not increase when the input level is low.
- MANUAL: The recording level of each channel can be adjusted with the AUDIO LEVEL control.

Setting the setup menus

If it is required to cut off low frequencies in the audio input signals (for example, to reduce the wind noise of microphones), set setup menu item "AUDIO LOW CUT-IN SELECT". See page 21 for details.

■ Setting the time code recording function

The VCR records SMPTE(NTSC)/EBU(PAL)-standard time code during recording. Set the switches in the TC GENERATOR block according to applications.

- To record time code as set in the built-in time code generator :
 - Set the PRESET/REGEN switch to PRESET.
 - Set the REC/FREE switch. If it is required to record continual time codes across different scenes, set the switch to REC.
 - Set the setup menu. (only NTSC model) Open the setup menu item "TCG SELECT DROP/NON-DROP" and set the framing mode of the time code generator to drop frame or non-drop frame mode.
- To record a time code in continuation from the existing time code on tape:
- Set the PRESET/REGEN switch to REGEN.

The time taken to enter record mode from record-pause mode is variable depending on the PRESET/REGEN switch position.

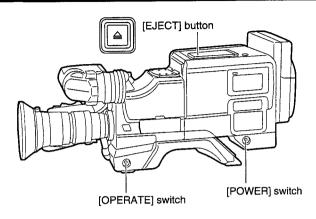
When set to PRESET: Approx. 0.8 second When set to REGEN: Approx. 1.5 second

This switching will cause a shift in the tape position for the REC PAUSE. Therefore, the VCR generate a switching sound.

For details on the time code operations including time code presetting, see "TIME CODE OPERATION" on page 26.

The sub-time code is used to record the date and time data. For the setting of the date and time data, see page 30.

RECORDING PROCEDURE

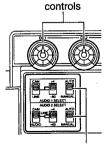


- 1. Set the POWER switch of the VCR to ON.
- 2. Set the OPERATE switch of the camera to VTR SAVE then, in a while, to VTR ST-BY.



- The VCR is turned ON so the OPERATE indicator lights in green and the display appears.
- 3. Press the EJECT button to open the cassette cover, insert a cassette tape properly and close the cassette cover gently.
 - Ensure that the REC switch on the back side of the cassette is set to ON.
- → When the cassette cover is closed, the tape is loaded and the VCR enters record-pause mode.
- Use a cassette tape marked DIGITAL S. A S-VHS or VHS cassette cannot be used with this VCR.
- After the cassette cover is closed, it takes about 10 seconds before the VCR is ready for recording.
- See page 25 for the automatic scene change cueing function.
- 4. Adjust the VCR and camera as required for recording before starting it.
 - •VCR: When adjusting the recording level manually:

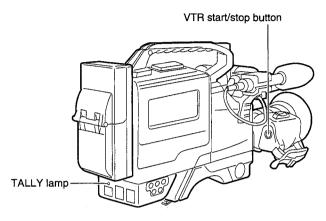
RECORD LEVEL



- Set the AUTO/MANUAL switch to MANUAL and adjust the RECORD LEVEL controls so that the level meter peak does not exceed –5dB, even when large sounds are input.
- For the input from the camera microphone or the -60dB LINE input, the limiter circuit activates to hold the recording levels under 0dB, even when the RECORD LEVEL controls are operated.

[AUTO/MANUAL] switch

Camera: Adjust the white balance, focusing, zooming, etc.
 For details, refer to the instruction manual of the camera.



5. Start recording.

Press the VTR start/stop button of the camera.

→ The VCR starts recording.

When the VTR start/stop button is pressed, the TALLY lamp of the VCR and the REC tally lamp in the viewfinder start blinking. They turn to continuous lighting when the VCR enters record mode.

6. To let recording pause temporarily:

Press the VTR start/stop button of the camera.

→ The TALLY lamp turns off and the VCR enters record-pause mode.

When the VTR start/stop button is pressed, the VCR enters the record-pause mode after rewinding the tape for about 1 to 1.5 second (back-spacing). During the back-spacing, the last section recorded on

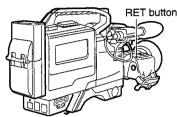
the tape is played in the reverse direction. However, During play in the reverse direction, a block noise is appeared. You can just use it as a reference for confirming whether recording has been made or not.

- To restart recording: Press the VTR start/stop button of the camera.
- → Recording restarts.

End recording.
Enter record-pause mode and perform the following operations as required.

- When it is required to unload the cassette tape:
 - Press the EJECT button.
- When it is required to put the VCR in standby OFF mode:
 - Press the OPERATE switch of the camera to VTR SAVE.
- A neat transition to the next recorded scene cannot be guaranteed if you end a recording by setting the OPERATE or POWER switch to OFF. Be sure to enter record-pause mode before switching the camera OFF.
- Before recording a scene which is particularly important, perform test shooting to ensure that normal recording is possible.
- The VCR power consumption can be reduced by setting the LIGHT switch and TALLY switch to OFF.

RET button function



■ Recording check

- When the RET button on the camera lens is pressed while the VCR is in record-pause mode, the tape is rewound and played back for about 2 seconds. Holding the RET button allows the rewinding and playing of the tape for up to 10 seconds.
 The VCR returns to the record-pause mode after the rewinding and playback.
- If the VTR Start/Stop button is pressed during a recording check, the check is stopped and recording starts immediately.
 As a result, the transition to the next scene in the recorded tape may be disturbed.

■ Backspace for transition recording

This is the facility for the proper execution of a transition recording of a desired section of a recorded tape.

- **1.** Press the PLAY button in order to play the tape back.
- 2. While monitoring the viewfinder, press the STOP button at the scene where you want to start a transition recording.
- 3. Press the RET button on the camera lens unit.
- → "Backspace" takes place to start recording at the scene where you pressed the STOP button.
- 4. Press the VTR Start/Stop button on the camera unit to begin recording.
 - The RET button function are not available for some cameras.
 Supported by KY-D29 and KY-19 cameras.

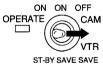
For the KY-27 series, the products with serial numbers having the following 4 last digits are supported.

Greater than 1219(for U-ver)/1346(for E-ver) (use the figures only as a guidepost)

Unsupported products can be upgraded on request for a charge. Contact the nearest JVC authorized service agent.

VCR Power-Save

- To put the VCR in power-save mode, set the OPERATE switch of the camera to VTR SAVE.
 - The VCR in record-pause mode enters power standby - OFF mode. The display is turned off in this low power consumption mode.



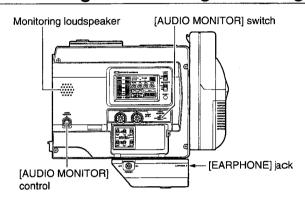
- If you want to record in the Power-Save mode, press the VTR Start/Stop button on the camera, and the VCR power is turned on so that the drum begins to run and starts recording in about 8 seconds. (KY-D29 only)
- To return to record-pause mode from power-save mode, set the OPERATE switch of the camera to VTR ST-BY.

If VCR is Left In Record-Pause Mode

When the VCR has remained in record-pause mode for about 30 minutes, the VCR enters tape protect mode, in which the drum rotation is stopped automatically and the tape tension is released.

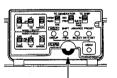
- To start recording from tape protect mode, press the VTR start/ stop button of the camera; the drum starts to rotate and recording starts in about 8 seconds.
- To return to record-pause mode from tape protect mode, press the VTR start/stop button of the camera twice; the drum starts to rotate.
- The time until the VCR enters tape protect mode after it is put to record-pause mode can be set with the setup menu item "LONG PAUSE TIME SELECT" to 1 minute, 5 minutes or 30 minutes.

Monitoring Audio During Recording



The audio input during recording can be monitored through the monitoring loudspeaker or earphone.

- The monitoring audio is not output from the loudspeaker while the EARPHONE jack is in use.
- The AUDIO MONITOR switch selects the audio channels to be monitored.
- The AUDIO MONITOR control adjusts the monitoring volume.
- The loudspeaker or earphone outputs an alarm tone in the case of an abnormal condition occurring with the VCR.



[ALARM] control

switch setting.

An alarm tone is also output when the tape end is reached or when the battery is running down. The alarm tone volume can be adjusted with the ALARM control. For details on the alarm tone, see pages 31 and 32.

• Do not increase the audio monitoring volume too high, otherwise howling with the camera microphone may occur.

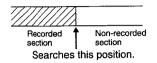
PRESET/REGEN Switch

[PRESET/REGEN] switch

- Switching the PRESET/REGEN switch in record-pause mode changes the tape position during record-pause according to the
- When the PRESET/REGEN switch is switched after having started recording by pressing the VTR start/stop button of the amera, the new setting remains valid in subsequent recording operations.

Automatic scene change cueing

When the VCR is recording something on a virgin tape, the recording is stopped by enterring the record-pause mode and the VCR is switched OFF or the cassette is ejected and then reloaded before the next recording, the automatic scene change cueing function ensures a neat transition to the next recorded scene by automatically searching for the end of the last recording.



The automatic scene change cueing operation is performed for about 10 seconds after the VCR is switched ON again or the cassette is reloaded.

This function takes place on the following occasions:

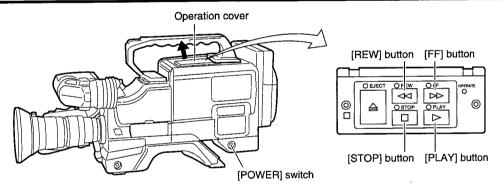
- When the VCR is switched ON after it has been switched OFF in record-pause mode.
- When the cassette is reloaded after it has been ejected in record-pause mode. *Note that proper operation cannot be guaranteed depending on the type of cassette or the tape position where the recording was ended.

 When the RET button on the camera lens is pressed in stop mode. (See the RET button function on page 24.)

NOTES

- If the VTR Start/Stop button is pressed in the middle of the automatic scene change cueing operation, the VTR start/stop function is given priority so a neat transition to the next scene cannot be guaranteed.
- Be sure to use the VTR Start/Stop button to end every recording (because a pilot signal for ensuring a neat transition to the next scene is recorded when this is done.)
- The proper functioning of the automatic scene change cueing cannot be guaranteed if the recording time before entering the record-pause mode is less than 2 seconds.
- The last recorded position cannot be searched if the tape position has been changed from the position where the VCR entered record-pause mode last.
- The search operation occurs only when the current tape position is less than 2 seconds from the position where the record-pause mode was last entered.

PLAYBACK



PLAYBACK PROCEDURE

- 1 Set the POWER switch of the VCR to ON, and open the operation cover to put it in OPERATE ON mode.
- **2.** Load a prerecorded cassette tape properly.
- **3.** Press the PLAY button.
- The PLAY indicator lights up and playback starts.
 - •If the VCR is in the record-pause mode, press the STOP button to release the record-pause mode before pressing the PLAY button.
- 4. Press the STOP button to stop recording.
 - → The STOP indicator lights up and the VCR enters stop mode.
 - This VCR is not capable of manual tracking adjustment. The tracking is adjusted automatically during playback.
- This VCR is not capable of still image playback.
- A S-VHS or VHS cassette tape cannot be used with this VCR.
- When auto tracking is activated at the start of the play mode, the played video will be interfered with by digital noise. The linear track audio is output in this period.

FAST FORWARD, REWIND

- Press the FF button in stop mode to fast forward tape and press the REW button in stop mode to rewind tape.
- Press the STOP button to stop fast forwarding or rewinding.
- When the tape approaches the end during fast forwarding or rewinding, the tape speed decelerates to protect the tape.

SEARCH

- Press the FF button in play mode to search the tape in the forward direction at about 6 times the normal speed.
 Press the REW button in play mode to search the tape in the reverse direction at about 6 times the normal speed.
- Press the PLAY button to resume normal playback.
- The audio recorded on the linear track of the tape is reproduced during the search.
- Video noise may be observed or the image may become unstable during the search, but this is not a malfunction.

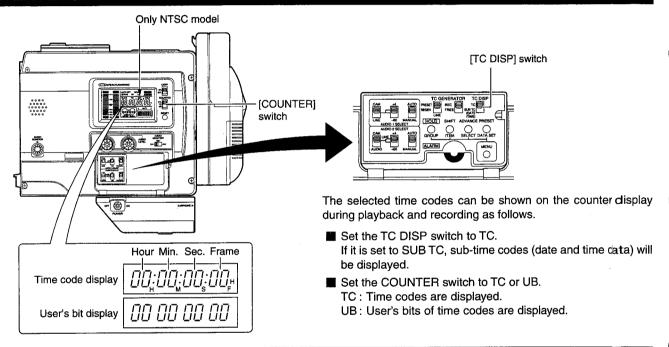
TIME CODE OPERATION

This VCR records 2 time code areas on the tape; the main time code area which contains time codes for use as time data in editing, etc., and the sub-time code area which can optionally contain the date and time data.

- The main time code area contains the recording of SMPTE-standard time codes and user's bits. In play mode, the reproduced time codes or user's bits are shown on the counter display.
- The sub-time code area contains the recording of the date and time data, which can also be shown on the counter display during playback.
 - Neither the main time code nor sub-time code data is output through the VIDEO OUT connector.
 - The generated time-codes are output from the TC OUT connector.

The following description begins with the handling method of the main time code. That of the sub-time code will be described from page 29 and on.

DISPLAYING TIME CODE



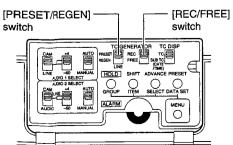
SETTING AND RECORDING TIME CODES

The time code and user's bit data from the built-in time code generator are recorded during recording. The built-in time code generator is operated with one of the following methods.

- Presetting desired data in the time code generator and recording it.
- Slave-locking the built-in time code generator with the data of an external time code generator.
- Reading the time code data from tape and recording continual time codes to it.

Presetting and Recording of Time Code

The time code or user's bit data to be recorded onto tape can be preset to a desired value.



Switch setting

■ Setting the switches in the TC GENERATOR block

- Set the [PRESET/REGEN] switch to PRESET.
- Set the [REC/FREE] switch as follows.

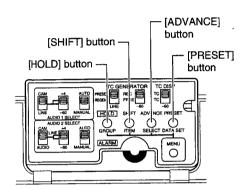
: The data preset in the time code generator runs only during reprinting.

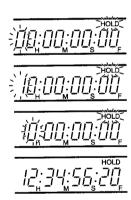
Use this setting to record continual time codes across scenes when recording them one after another.

FREE : The data starts to run from the moment it has been preset in he time code generator.

Drop frame/Non-drop frame modes

With the NTSC format, the actual number of frames per second is about 29.97 frames, while the number of frames assumed for use in time code processing standard is 30 frames. The drop frame mode compensates for this difference by dropping frames 00 and 01 at every minute whose figure cannot be divided by 10. The non-drop frame mode ignores the above difference and does not drop frames.





- Pressing the [RESET] button in preset mode resets the time code or user's bit data to 00 00 00 00.
- If you have pressed the [HOLD] button by mistake, press the [HOLD] button again to return to the previous display.

■ Setup menu setting

Select the framing mode of the time code generator with setup menu item "TCG SELECT DROP/NON-DROP".

- dF: The time code generator runs in drop frame mode. Use this setting when putting importance on the recording time.
- nF: The time code generator runs in non-drop frame mode. Use this setting when putting importance on the number of frames.

The NDF indicator on the LCD display lights in non-drop frame mode.



Time Code Presetting Procedure

- Display time code on the counter display.
 Set the COUNTER switch to TC.
 - Time code up to 23 hrs. 59 min. 59 sec. 29(NTSC)/24(PAL) frames can be preset.
- **2.** Put the time code generator in preset mode. Press the HOLD button.
- The HOLD indicator lights on the display to indicate the preset mode. The first digit of the counter display blinks.
- **3.** Set the value of the blinking digit. Press the ADVANCE button.
 - → The value of the blinking digit changes.
- **4.** Change the blinking digit. Press the SHIFT button.
 - → The blinking digit changes.
- **5.** Set the desired value for all digits. Repeat steps **3** and **4** for each digit.
- **6.** Preset the set data in the memory. Press the PRESET button.
- → The set data is saved as the time code generator value.

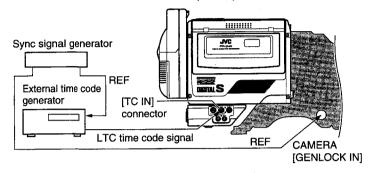
 After the above operation, the HOLD indicator disappears from the display, the counter stops blinking and the time code is preset.
 - If the REC/FREE switch is set to FREE, the time code starts to run.
- If you preset a wrong time code, perform steps 3, 4, 5 and 6 again.

Presetting the user's bit

- Display user's bit on the counter display and perform the same procedure as the time code presetting procedure.
 - The user's bit can be specified using numerals or alphabets from O to F for each digit.

Recording Time Codes by Slave-Locking the Built-in Time Code Generator with the External TCG

The built-in time code generator can be synchronized (slave-locked) with the SMPTE(NTSC)/EBU(PAL)-standard LTC time code signal which is input through the TC IN connector. Once the slave locking has been carried out, the built-in time code generator runs even when the external time code input stops. Even when the power is switched off, it continues to run on the backup lithium battery.



- [RESET/REGEN] switch [REC/FREE] switch

 TO GENERAL PR TO DISP

 THE SELECT DATA SELECT DATA SET

 AUDIO 1886.00 SHIFT TO DISP

 THE SELECT DATA SET

 AUDIO 450 MANUAL

 AUDIO 450
- 1. Input the external LTC time code signal in compliance with the SMPTE/EBU standard to the TC IN connector.
- **2.** Display time code on the counter display.
- 3. Set the switches in the TC GENERATOR block as follows.
 - Set the PRESET/REGEN switch to PRESET.
 - Set the REC/FREE switch to FREE.

Setup menu setting

Set setup menu item "U-BIT SLAVE ON/OFF" as required.

 Set to ON if you want to also slave lock the user's bits to the external time code generator.

The framing mode is set automatically to the same mode as the input time code (drop frame or non-drop frame mode). The NDF indicator lights on the display if the framing mode is the non-drop frame mode.(Only NTSC model)

- **4.** Set and operate the external time code generator.
- → The built-in time code generator is slave-locked with the input external time code data.

The SLAVE indicator lights on the display.

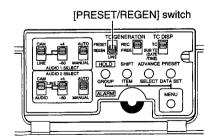


- *If the external time code generator phase is not genlocked with the phase of the camera video signals, the "SLAVE" display will flicker.
- Once slave locking has been made, the built-in time code generator keeps on running even when the external time code generator is stopped.
- While the REC/FREE switch is set to REC, slave-locking will not take place.

Recording Time Codes in Continuance From Time Codes Recorded on Tape

The VCR also incorporates a time code reader. Therefore, when the VCR enters record mode from record-pause mode, it can read the time code data recorded on tape and record continual time codes after it. The recorded user's bit data is identical to the user's bit data recorded on tape.

To make this possible, set the switches in the TC GENERATOR block as follows before starting recording.



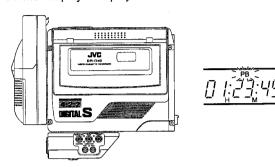
When the PRESET/REGEN switch is set to REGEN, the time taken for entering record mode from record-pause mode becomes slightly longer.

Setting

- Set the counter display to display time codes or user's bits.
- Set the PRESET/REGEN switch to REGEN.
- The time code run mode becomes unrelated to the REC/FREE switch settings.
- The framing mode of the time code generator becomes automatically identical to the mode used by the time codes recorded on the tape (drop frame or non-drop frame mode).
- Only NTSC model

REPRODUCING TIME CODES

The VCR incorporates a time code reader which outputs the time codes and user's bits recorded on the played tape is displayed on the counter display. The played time codes and user's bits are not output from the VIDEO OUT and TC OUT connector.



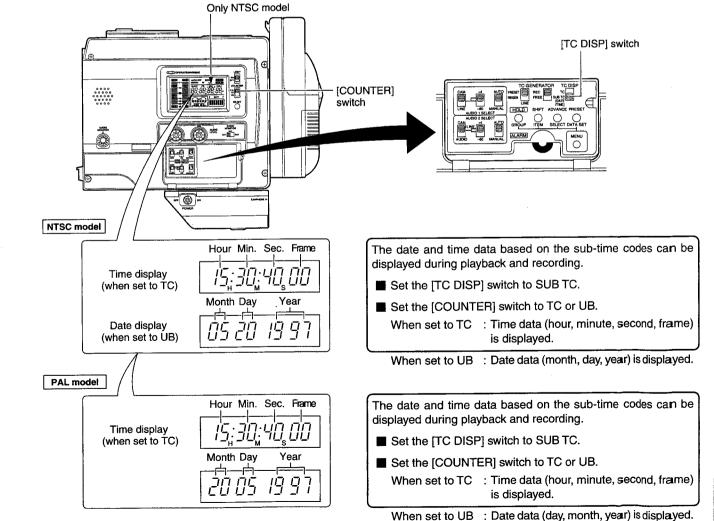
- Set the counter display to display time codes or user's bits.
- Reproduce time codes.

 Press the PLAY button.
 - → The PB indicator lights on the display and the reproduced time code or user's bit is displayed.

SUB-TIME CODE (DATE, TIME)

The VCR records a sub-time code area as an additional time code recording area to the main time code area. The sub-time code area contains data on the date and time of the day.

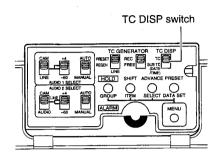
Displaying Sub-Time Code Data (Date and Time Data)



Setting the Date and Time (Sub-Time Code)

The set date and time data is stored in the sub-time code area on tape.

The set date/time data will continue the counting on the backup lithium battery, even when the power is switched off.



Month Day Year Hold Hour Min. Sec.

Setting the date

- 1. Display the date on the counter display.
 - Set the TC DISP switch to SUB TC and the counter switch to UB.
- 2. Press the HOLD button to initiate the setting mode. The HOLD indicator lights on the display, indicating that the VCR is in the setting mode. The the first two digits of the counter display blinks.
- **3.** Set the figures of the month(for NTSC)/day(for PAL).
 - Press the ADVANCE button to set the figure of the blinking digit.
- 4. Similarly, set the figures of day(for NTSC)/month(for PAL) and year by pressing the SHIFT button to change the blinking digit and pressing the ADVANCE button to set its figure.
- 5. Press the PRESET button to save the set date in the memory. The HOLD indicator on the display turns off and the date display stops blinking.

Setting the Time of the Day

- 1. Display the time data on the counter display.
 - Set the TC DISP switch to SUB TC and the counter switch to TC.
- Press the HOLD button to initiate the setting mode. The HOLD indicator lights on the display, indicating that the VCR is in the setting mode. The first digit of the counter display blinks.
- **3.** Similarly to the date setting operation, set the figures of the hour, minute and second using the SHIFT and ADVANCE buttons.
 - The hour should be set in the 24-hour mode.
 - The frame cannot be set. It will be fixed to 00.
- 4. Press the PRESET button to save the set time in the memory.

 The HOLD indicator on the display turns off and the time starts to count.

Reproducing the Date and Time (Sub-Time Code)

The recorded date and time data is not included in the video signal output from the VIDEO OUT connector or the time code signal output from the TC OUT connector.

The data is displayed only on the counter display of the VCR during playback of the tape.

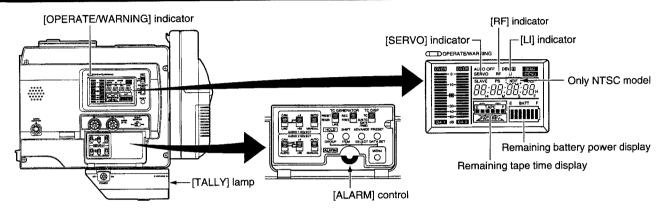
• When a tape recorded with this VCR is played on a desk-top type DIGITAL S VCR (e.g. JVC BR-D50/D80/D85, etc.), the date or time data is shown on the sub-time code display of the DIGITAL S VCR. The time data is displayed when the COUNTER switch of the DIGITAL S VCR is set to TC, and the date data is displayed if the switch is set to UB.

TROUBLESHOOTING GUIDE

The VCR provides warning on troubles in the operating situations using indicators, LCD displays and monitor tones. The warning consists of the following two kinds of information.

- Alarm indications : These indications are given to provide warning on the VCR situation, for example when the tape or battery pack should be replaced.
- Error code display: In case an error occurs with the VCR operation, the VCR applies self-diagnostics of the cases and shows the diagnostics results on the counter display. At the same time as displaying an error code display, the VCR stops operation automatically or ejects the cassette tape.

ALARM INDICATIONS



• The LCD display, OPERATE/WARNING indicator, TALLY lamp and alarm tone act depending on situations as shown in the following table.

P	Alarm Indications				
LCD Display	OPERATE/ WARNING indicator	TALLY lamp	Alarm Tone	Situation	VCR Behavior, Treatment
SERVO indicato	↔	↔		Lights in case of drum servo trouble during recording. Lights when input video signal is disturbed or VCR is subject to a shock. (Displayed only in record mode)	Operation: Continues. Treatment: • Check input video signal. • Signal is disturbed when VCR is subject to a violent shock. * In other cases, consult your dealer or nearest JVC-authorized service agent.
RF indicator	↔	↔	-##-##-##	Lights in case of video head clog. (Displayed only during back-spacing for record-pause mode.)	Operation : Continues. Treatment : Clean the head with the special head cleaning tape.
LI indicator			-	Lights when lithium battery for time code generator and date/ time data backup is exhausted.	Operation : Continues. Treatment : Replace it with a new lithium battery. See page 34.
Remaining tape time	•	•	 	Approx. 2 min. before tape end. (Displayed only in record or record-pause mode) The TALLY lamp and alarm tone are activated only in the record mode.	Operation : Continues.
WATAPET TAPET	•	₩		When tape has ended completely	Operation : Stops.
Remaining battery power	•		ccept for earch mode)	When the remaining battery power is low.	Operation: Continues. Treatment: Replace battery packearly.
二 第二 [0000000]	•	↔		When the battery power drops to an insufficient level.	Operation: Stops automatically and operate turns OFF.

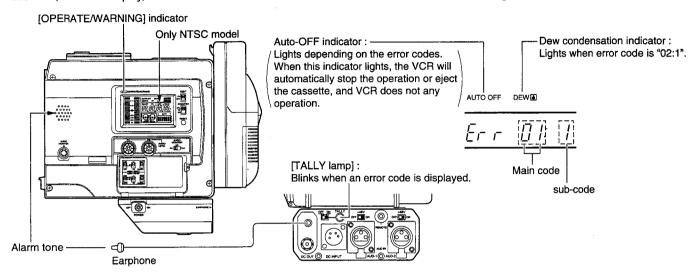
- The OPERATE/WARNING indicator usually lights in green to indicate OPERATE ON mode. In case of alarm, its color turns red and acts as shown in the above table.
- The alarm tone output is superimposed in the audio signal output from the monitoring loudspeaker or EARPHONE jack. The volume of the alarm tone can be adjusted with the ALARM control.

: Continuous sound. — : Sound interrupted once per second.

^{*} Refer to "1.5 How to detect the alarm" in Page 1-20 of the service manual.

TROUBLES WITH *ERROR CODE OUTPUTS

In case of trouble during operation of the VCR, it applies self-diagnostics to identify the cause and displays the result in the form of an error code. The error code consists of the "main code" which indicates its contents and the "sub-code" which indicates the details. At this time, the LCD display, the OPERATE/WARNING indicator and alarm tone also act according to the current VCR situation.



OPERATE/WARNING indicator	Alarm Tone	Display	VCR Operation
Red. blinking	Continuous	"Error code"	Automatically ejects the cassette. It can be inserted again.
		"Error code" plus "AUTO OFF"	Automatically stops operation or eject the cassette. (Auto OFF*). The VCR does not accept any operation.
Red, steady lighting	Intermittenţ	"02:1" and "DEW . ●"	Dew is condensed in the VCR. The VCR does not accept operation until indicators disappear from the display.

★In the Auto OFF status, it is impossible to operate the VCR. This condition can be corrected by switching the POWER or OPERATE off and then switching it ON again. If the same trouble occurs again after the power is turned ON, there may be a failure in the VCR. Please consult your dealer or nearest JVC-authorized service agent.

This VCR is microcomputer-controlled equipment, which may malfunction due to external noise or interference. In this case, switch the VCR OFF, remove the lithium backup battery, and switch the VCR ON again after a few seconds.

Error Code	Error Details	VCR Operation	Treatment
01 : 1	Tape sensor LED wire is disconnected	Ejects cassette and does not accept any operation while the error is displayed.	Switch power ON again.
02:1	Condensation (dewing)	Does not accept any operation while the error is displayed. When condensation disappears, the indicators turn off.	Leave the VCR with the power ON, until "DEW" display disappears.
32:1 32:2	Tape loading impossible.	Ejects cassette	Insert cassette again.
33 : 1	Tape unloading impossible.	Stops operation. Does not accept any operation.	Switch the power OFF and then switch it back ON. However, the tape may be damaged depending on the situation. So consult with the JVC authorized service agent.

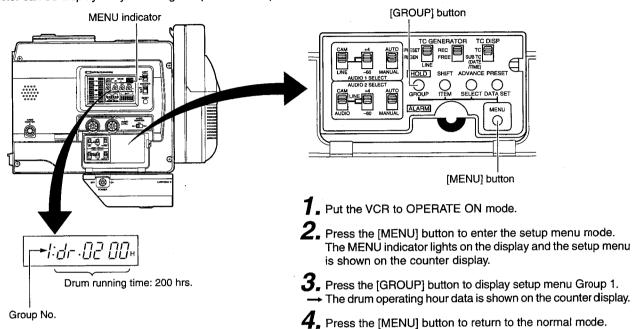
Error Code	Error Details	VCR Operation	Treatment	
56 : 3 to 56 : 8	Tape is cut or tape is slack.	Ejects cassette.	Check cassette and insert again if it is OK.	
57 : 1 to 57 : 4	Tape end sensor error.	Rewinds tape to confirm. If tape end is detected again, ejects the cassette.	Check cassette and insert again if it is OK.	
58 : 1 to 58 : 4	Tape beginning sensor error.	Fast forwards tape to confirm. If tape beginning is detected again, ejects the cassette.	Check cassette and insert again if it is OK.	
70 : 1	Drum rotation stopped.	Stops operation. Does not accept any operation.	Switch the power OFF and then switch it back ON. However, the tape may be damaged depending on the situation. So consult with	
71 : 1	Capstan rotation stopped.	Stops operation. Does not accept any operation.	the JVC authorized service agent.	
72 : 1 to 72 : 5	Supply reel rotation error.	Stops operation. Does not accept any operation.		
72 : 7	Supply reel rotation error due to tightly wound tape.	Ejects cassette.	Check cassette and insert again if it is OK.	
73 : 1 to 73 : 4	Take up reel rotation error.	Stops operation. Does not accept any operation.	Switch the power OFF and then switch it back ON. However, the tape may be damaged depending on the situation. So consult with the JVC authorized service agent.	
73 : 7	Take up reel rotation error due to tightly wound tape.	Ejects cassette.	Check cassette and insert again if it is OK.	

TROUBLES WITHOUT ERROR CODE OUTPUT

Symptons	Check points	
VCR power cannot be switched ON.	 Is power supply connected properly? Is battery pack recharged? Even when the POWER switch is set to ON, VCR power cannot be switched ON if the camera's OPERATE switch is not set to ST-BY or, in case of playback, until the VCR's operation cover is opened. When the lithium battery is depleted, the power should not be turned on. 	
Recording is not possible.	Is REC switch of cassette set it to ON? If it is OFF, set to ON.	
Cassette is ejected.	• Is the cassette in use a DIGITAL S cassette? VHS or S-VHS cassettes are ejected whenever they a inserted.	
Noise interferes with playback video.	Video head may be clogged with dirt. Clean head with the special head cleaning tape.	
Time code or date/ time data are not displayed on the monitor screen.	Time code and date/time data are not displayed on the monitor screen during recording or playbac VCR. The data is shown only on the counter display.	
Time code and user's bit data are not displayed on the counter.	• Is TC DISP switch under the side panel cover set to SUB TC? If it is, set the switch to TC.	
Remaining battery power display is incorrect.	• The setup menu item "BATT. TYPE SELECT" may not be set correctly according to the type of battery in use. If the menu item setting is wrong, set it correctly by opening setup menu item "BATT. TYPE SELECT".	
Battery alarm is displayed and VCR enters OPERATE OFF mode even when a fully charged battery is used.		
The operation of the PLAY, REW, or FF button is not accepted.	The unit is not in REC PAUSE mode. Press STOP button to cancel the REC PAUSE, then enter the desired mode.	

HOUR METER DISPLAY

The VCR can display the running time of the drum as the hour meter data on the counter display. The hour meter can be displayed by selecting setup menu Group 1.



HOW TO REPLACE BACKUP LITHIUM BATTERIES

This unit uses a lithium battery to backup the time code and date/time data.

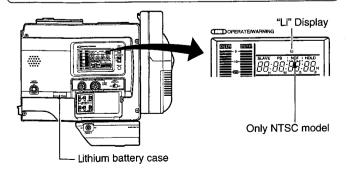
Install the provided lithium battery before actually using the unit.

CAUTION

If the unit is not used for a lengthy period of time, remove the lithium battery. If the voltage of the lithium battery is low, the set may malfunction.

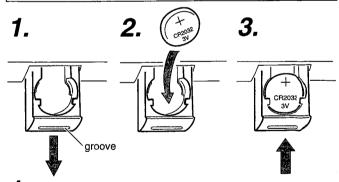
Lithium battery : CR2032

When the lithium battery is not in place or the battery is running down and requires a replacement, the "Li" in the LCD display will light up.



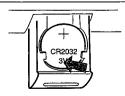
Replace lithium batteries with the OPERATE switch ON.
 Doing it with the OPERATE switch OFF will cause the loss of backup data.

HOW TO INSTALL THE LITHIUM BATTERY



- Place a flat-blade screwdriver in the groove of the lithium battery case and lower it.
- 2. Slide the battery into place with its + marked surface facing upward.
- 3. Push the lithium battery case back into the unit.

HOW TO REMOVE LITHIUM BATTERIES



If you press the lithium battery at the shown place, it will easily be removed.

SPECIFICATIONS

General

■ Format

: DIGITAL S : 12.65 mm

■ Tape width ■ Tape speed

: 57.737 mm/sec. (U-ver)

: 57.795 mm/sec. (E-ver)

■ Signal format

: NTSC (U-ver) : PAL (E-ver)

■ Record/play time

: 104 minutes (with a DS-104 cassette)

■ FF/rewind time

: Approx. 4 minutes (with a DS-64)

■ Power supply ■ Power consumption : 12 V DC (11 to 15 V DC) : Max. 28 W (22 W in record mode)

■ Camera power

: 12 V, max. 1.7 A (max. 20 W)

■ Auxiliary power output

: 12 V DC : max. 0.1A (11 to 15 V DC)

■ Dimensions

■ Weight

: 294.5 (W) × 268.5 (H) × 142 (D) mm

: Approx. 4 kg (net weight)

Approx. 5 kg (including NB-G1U battery

pack and tape)

■ Operating temperatures : 0°C to 40°C (32°F to 104°F)

■ Operating humidity

: 30% to 80%RH

■ Storage temperatures

: -20°C to 60°C (-4°F to 140°F)

Video Signal System

■ Video input (50-pin) ■ Composite video output

: Component signal input : 1 Vp-p, 75ohm, unbalanced

■ Sampling frequencies

: Y: 13.5 MHz. R-Y/B-Y: 6.75 MHz.

■ Quantization

: 8-bit

S/N

: More than 52 dB (during BR-D80/D50 reproduction with component output)

■ Resolution

: More than 410 lines

Audio Signal System

■ Number of channels

: $PCM \times 2$, cue track $\times 2$

■ Audio inputs

50-pin connector input

: -20 dBs, 10kohm, balanced : +4 dB, 10kohm, balanced

50-pin line input

: -60 dB, 3kohm, balanced

■ Audio output

: -6 dBs, low impedance, unbalanced

■ Earphone output

: -60 to -17 dBs, at 80hm, load : 48 kHz

■ Sampling frequency ■ Quantization

: 16-bit

■ Frequency response

: 20 Hz to 20 kHz (PCM)

■ Dynamic range

: More than 85 dB (PCM) (during BR-D80/

D50 reproduction)

■ Wow & flutter

: Below measurable limit

Time Code System

■ Time code signal

: Compliance with SMPTE standard(U-ver)

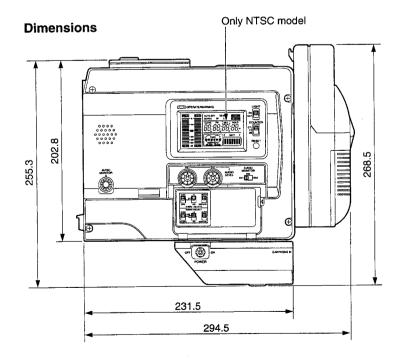
Compliance with EBU standard(E-ver)

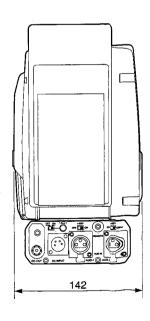
■ LTC input ■ LTC output : 0 +/--6 dBs, high impedance, unbalanced : 0 +/-6 dBs, low impedance, unbalanced

Accessories

■ Carrying handle

■ Lithium battery (CR2032) : ×1

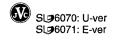




Design and specifications are subject to change without notice.

Unit: mm





SECTION 1 SERVICE CAUTIONS AND DISASSEMBLY

1.1 HOW TO REMOVE THE OUTER CASE

1.1.1 How to remove the cassette cover

(1) Remove two screw covers (A).

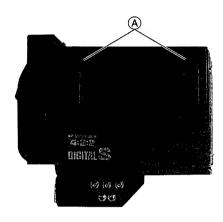


Fig. 1.1.1 (1) How to remove screw covers

- (2) Remove two screws (1).
- (3) Slide the cassette cover in the arrow direction in order to remove it.

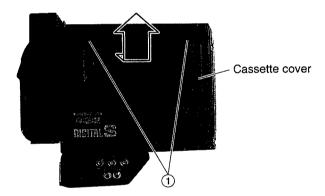


Fig. 1.1.1 (2) How to remove cassette cover

1.1.2 How to remove the left side cover

- (1) Remove the cassette cover. (Refer to the section 1.1.1.)
- (2) Loosen the four screws 2 to remove the left side cover.

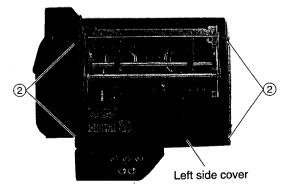


Fig. 1.1.2 (1) How to remove the left side cover

1.1.3 How to open the right side cover

(1) Loosen the four screws (3).

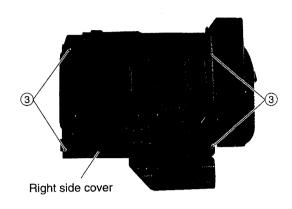


Fig. 1.1.3 (1) How to open right side cover

(2) Open the right side cover towards the front.



Fig. 1.1.3 (2) Diagram with the right side cover is open

1.1.4 How to remove the bottom cover

(1) Remove the four screws (4) and the two screws (5) to remove the bottom cover.

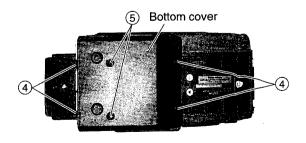


Fig. 1.1.4 (1) How to remove the bottom cover

1.2 HOW TO MAKE A DIAGNOSTICS OF THE MAIN BOARD

1.2.1 Main board layout diagram

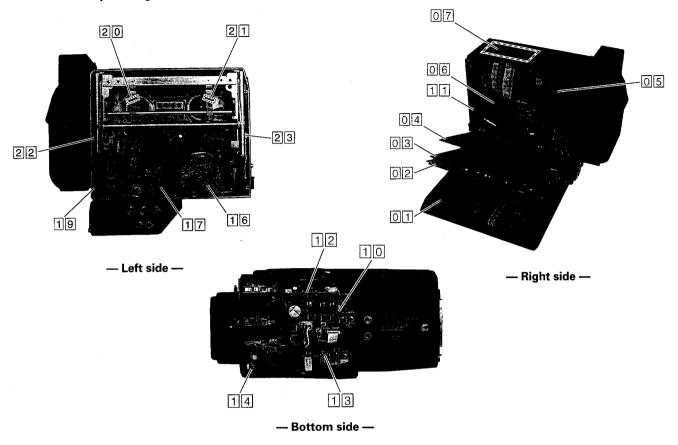


Fig. 1.2.1 Main Board layout diagram

Board name	Board layout position	Extension Board	Remarks
O 1 AUDIO & LCD	On the right side cover	Not necessary	Section 1.2.3
02 PV PROCESS 03 I/O SSG]- KLJ0131	Section 1.1.2
04 RFP	On the side of right side cover	Not necessary	- Section 1.2.4
0 5 S/S REG		Not necessary	-
06 PRE/REC		Not necessary	Section 1.2.5
15 MECHA. IF		Not necessary	Section 1.2.6
1 1 50P CONN.		Not necessary	Section 1.2.7
07 OPERATION		Not necessary	
10 I/O JUNC.	Inside connector box	Not necessary	Section 1.2.8
12 CONNECTOR		Not necessary	
13 POWER SW		Not necessary	
14 DC OUT		Not necessary	
16 DRUM MDA	On the side of the left side cover	Not necessary	
1 7 A/C HEAD		Not necessary	
18 MODE SENSE		Not necessary	
19 AL SENSE		Not necessary	
20 TUREEL FG		Not necessary	
21 SPREEL FG		Not necessary	
22 BEGIN SENSE		Not necessary	
23 END SENSE		Not necessary	

Table 1-2-1

1.2.2 Diagnosis of the I/O SSG and the PV PROCESS boards

- (1) Open the right side cover. (Refer to the section 1.1.3.)
 - → Adjustment of the I/O SSG board is available.

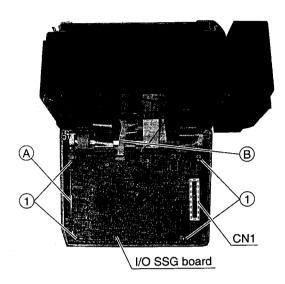


Fig. 1.2.2 (1) Diagnosis of I/O SSG board

- (2) Remove the flat cable CN3 (B) on I/O SSG board and four screws (1).
- (3) Lift the I/O SSG board up and remove CN1.
- (4) Remove the flat cable (A).
- (5) Remove two screws 2.

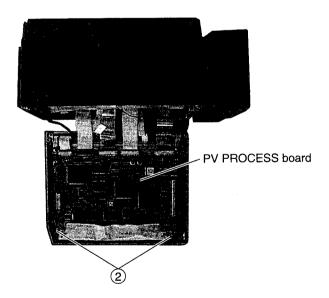
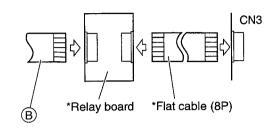


Fig. 1.2.2 (2)

- (6) Connect the extension board kit (KLJ0131) as shown below.
 - → Diagnosis of the I/O SSG and PV PROCESS boards are available.
- ① Connection between the flat cable B and CN3 on the I/O SSG board.



- (2) Connection between CN2 on the I/O SSG board and CN1 on the PV PROCESS board.
- → Connect the *flat cable (20P) between them.
- (3) Connection between CN1 on the I/O SSG board and CN9 on the PV PROCESS board.
- → Connect the *extension board between them.
- *: These parts are included in KLJ0131 Extension board kit.

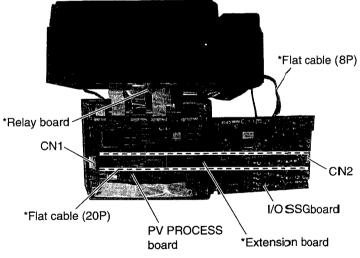
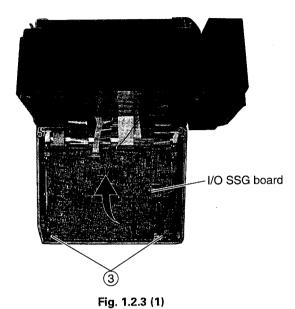


Fig. 1-2-2 (3) Connection of the extension board kit

1.2.3 Diagnostics of an AUDIO & LCD board

- (1) Open the right side cover. (refer to the section 1.1.3)
- (2) Remove two screws (3).



- (3) Open the I/O SSG board and the PV PROCESS board at the same time.
 - ightarrow Adjustment of the AUDIO & LCD board is then possible.
- (4) Remove the six screws (4) and the connectors CN6 and CN401.

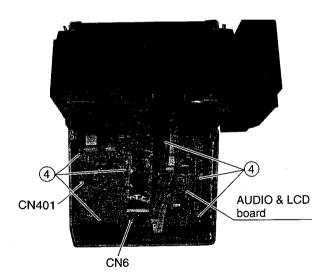


Fig. 1.2.3 (2) Adjustment position of the AUDIO & LCD board

(5) As shown in the Fig. 1.2.3 (3), while the AUDIO & LCD board is standing, the diagnosis is possible.

Caution: During diagnosis, the monitor speaker does not sound. Also, data cannot be backed up by the lithium battery.

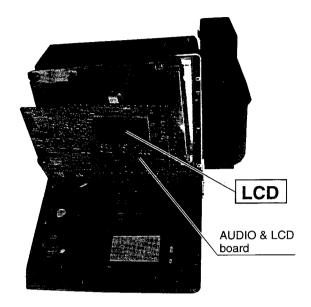


Fig. 1.2.3 (3) Diagnosis of the AUDIO & LCD board

1.2.4 Diagnosis of the RFP and S/S REG boards

- (1) Open the right side cover. (Refer to the section 1.1.3.)
 - \rightarrow Diagnosis of the RFP board is possible when the shield plate is lifted.

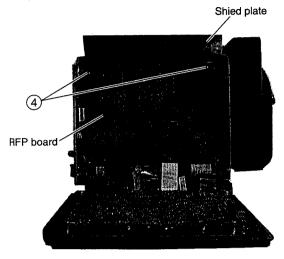


Fig. 1.2.4 (1) Adjustment position of the RFP board

- (2) Remove the two screws 4 and put the RFP board down in front of you.
 - → Diagnosis of the RFP board and adjustment of the S/S REG board are available.

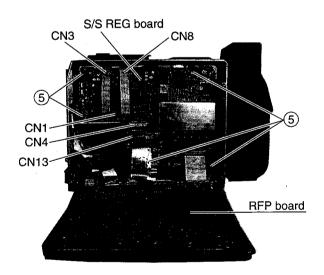


Fig. 1.2.4 (2) Diagnosis of the RFP board

- (3) Remove the flat cables CN4 and CN13 of the S/S REG board.
- (4) Remove the five screws (5).
- (5) Connect the flat cables CN4 and CN13.
 - → As shown in the Fig. 1.2.4 (3), tilt the S/S REG board to perform the diagnosis of the S/S REG board.

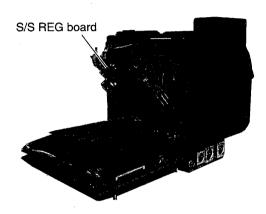


Fig. 1,2.4 (3) Diagnostics of the S/S REG board

1.2.5 Diagnosis of the PRE/REC board

- (1) Open the RFP board and remove the flat cables CN4 and CN13 of the S/S REG board. (Refer to the section 1.2.4 (1) (3).)
- (2) Remove the shield cover of the PRE/REC board.

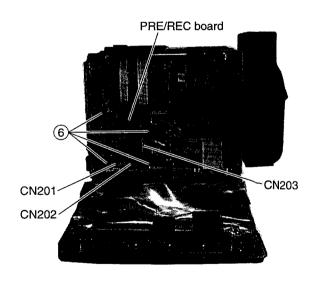


Fig. 1.2.5 (1)

- (3) Remove the four screws (6) and the flat cables CN2O1 CN2O3. Then remove the PRE/REC board.
- (4) Remove the six soldered parts of the shield cover in order to remove the shield cover.
- (5) Connect the flat cables CN201 CN203, CN4 and CN13 again.
 - → Diagnosis of the PRE/REC board is possible.

1.2.6 Diagnosis of the back side of the main deck

- (1) Open the RFP board. (Refer to the section 1.2.4 (1) (2).)
- (2) Remove the flat cables CN1, CN3, CN4 and CN8 of S/S REG board. (Refer to Fig. 1-2-4 (2).)
- (3) Remove the five screw (5) and put the S/S REG board down in front of you. (Refer to Fig. 1-2-4(2))
- (4) Remove the PRE/REC board. (Refer to the section 1.2.5 (2) (3).)
 - → The back side of the main deck is revealed.

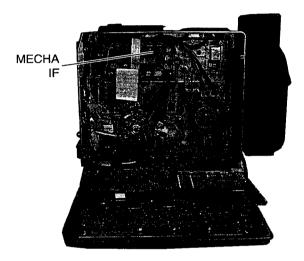


Fig. 1.2.6 Back side of the main deck

1.2.7 Diagnosis of the 50P CONN. board

- (1) Remove the left side cover. (See the section 1.1.2.)
- (2) Remove the screw (7) and then remove the ground lug.

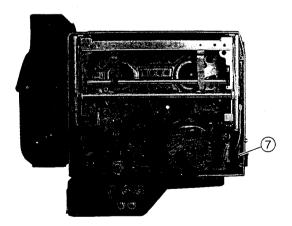


Fig. 1.2.7 (1)

(3) Open the right side cover. (See the section 1.1.3.)

- (4) Remove the PRE/REC board. (See the section 1.2.5 (1) (3).)
- (5) Remove the CN202 and CN203 of the 50P CONN. board.

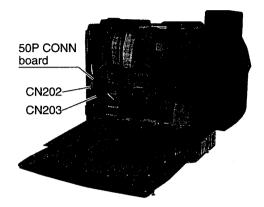


Fig. 1.2.7 (2)

- (6) Remove two sets of screws (8) and (9).
- (7) Remove the hook (A) inside the set, then remove the cover (B).

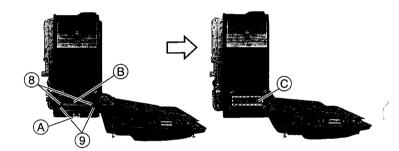


Fig. 1.2.7 (3)

- (8) Slide the 50-pin connector upwards then towards the left to insert the right side of the 50-pin connector inside the set from the hole \bigcirc .
- (9) Pull the 50-pin connector out from the side of the right side cover.
- (10) Connect the connectors of 50P CONN. board and PRE/REC board.
- \rightarrow Diagnostics of the 50P CONN. board is possible.

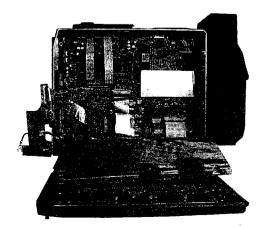


Fig. 1.2.7 (4) Diagnosis of the 50P CONN. board

1.2.8 Diagnosis and how to remove the I/O JUNC board

- (1) Remove the bottom cover. (See the section 1.1.4.)
 - → Diagnosis of the I/O JUNC, CONNECTOR and the POWER SW boards are then possible.

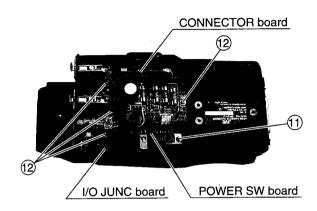


Fig. 1.2.8 (1)

(2) Remove the six screws (10).



Fig. 1.2.8 (2)

- (3) Remove all the connectors on the I/O JUNC board.
- (4) Remove the screw (11) (Fig. 1.2.8 (1)), then remove the POWER SW board.
- (5) Remove the CN101 of the CONNECTOR board.
- (6) Remove the four screws (12) (Fig. 1.2.8 (1)), then remove the I/O JUNC board.

1.3 FUNCTIONS OF SWITCHES INSIDE THE S/S **REG BOARD**

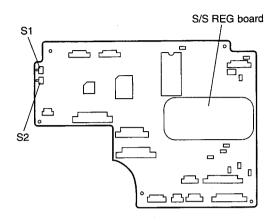


Fig. 1.3.1 Switch layout diagram inside the S/S REG board

• S/S REG board

S1: NTSC/PAL Switch

At factory: U version = NTSC, E version = PAL

NTSC: Operates as an NTSC model.

PAL : Operates as a PAL model. However, if no (625/50) signal is input, the playback of an (525/60) alignment

tape is possible.

Caution: The video adjustment values and the software, etc. are different between NTSC and PAL, therefore, just changing switches is not enough to be suitable for the version.

• S/S REG board

S2: Waring cancellation switch

(At factory: OFF)

This switch has to be OFF except when waring occurrence requires analysis.

: The warning detection circuit works.

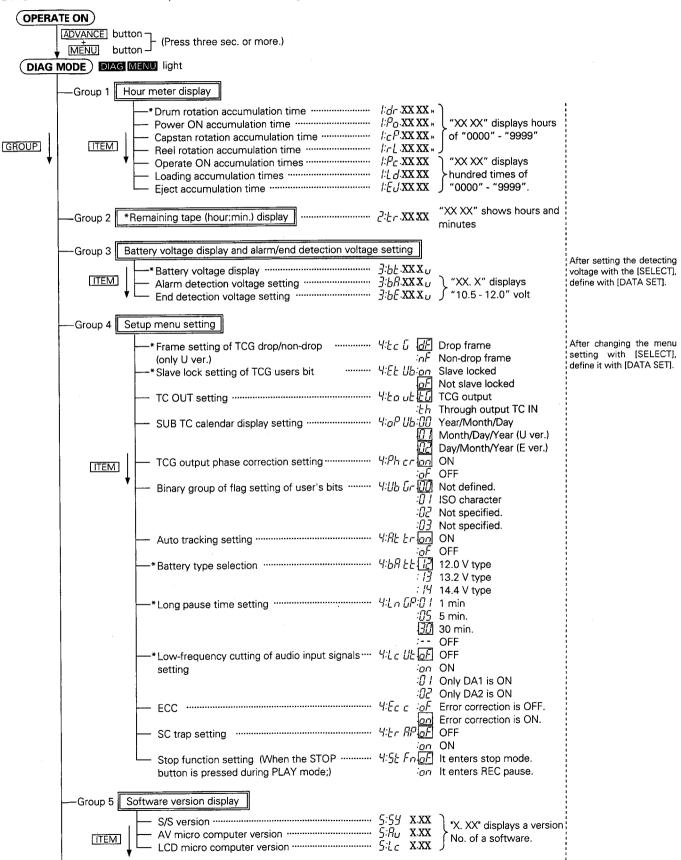
: (1) It does not enter the warning mode (excluding alarm display).

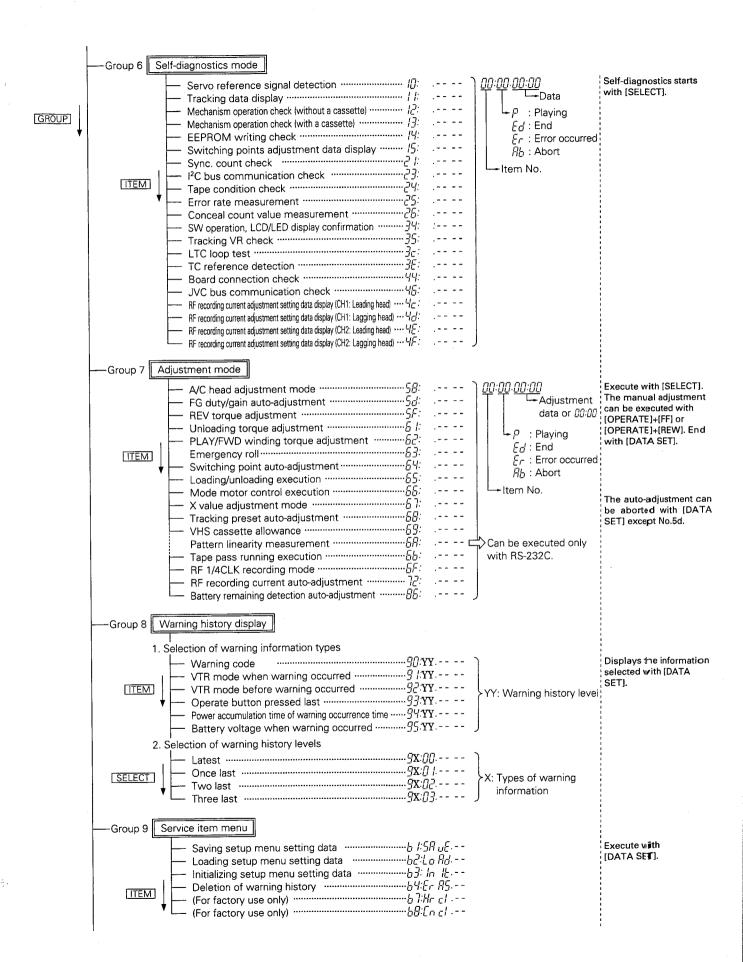
- (2) Mechanism operation is available without an AV micro computer (PV PROCESS board).
- (3) Without connecting a camera, it enters the recording mode when the "PLAY" botton and the operate cover switch are pressed simultaneously.

1.4 DIAG MODE

1.4.1 Structure of DIAG mode

DIAG mode is used for service operation. There are nine groups as shown in the Fig. 1.4.1.



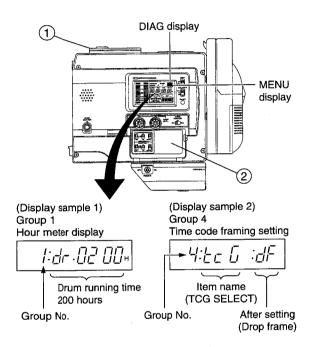


1.4.2 How To Select Items

- (1) Set the [POWER SW] to ON, then open the operation cover (1).
- (2) Initiate DIAG mode.

Open the door 2 at the TIME CODE/SETUP MENU setting section, then hold the [MENU] button for three sec. or more while pressing the [ADVANCE] button.

→ [MENU] and [DIAG] display blink on the display and the DIAG menu appears on the counter display.



(3) Select a group.

Switch the group display of the counter display by pressing the [GROUP] button.

[Group No. display]

Group 1:"1" — Hour meter display and individual reset (7 items, See Fig. 1.4.1.)

Group 2: "2"— Remaining tape (hour:min.) display (1 item. See Fig. 1.4.1.)

Group 3: "3" — Battery voltage display and alarm/end detection voltage setting
(3 items. See Fig. 1.4.4.)

Group 4: "4" — Setup menu setting (13 items. See Fig. 1.4.5.)

Group 5: "5" — Software version display (3 items. See Fig. 1.4.6.)

Group 6: "10" - "4F" — Self-diagnosis mode (21 items. See Fig. 1.4.7.)

Group 7: "58" ~ "86" — Adjustment mode (17 items. See Fig. 1.4.1.)

Group 8:"9 " — Warning history display (6 items. See Fig. 1.4.9.)

Group 9: "b " — Service item menu (6 items. See fig. 1.4.10)

(4) Select the item in the group.

Pressing the [ITEM] button allows display of the desired item on the counter display.

1.4.3 How to end the DIAG mode

Pressing the [MENU] button ends the DIAG mode.

1.4.4 How to set the battery alarm/end detection voltage setting (Group 3)

Alarm/end detection voltage setting can be set with the voltage values while 12 V battery is used. Which means that the alarm/end is detected at a voltage with 1.1 times the display voltage with a 13.2 V battery and 1.2 times with a 14.4 V battery.

Example) Setting with 10.5 V: 13.2 V type \rightarrow 10.5 x 1.1 =11.6 V 14.4 V type \rightarrow 10.5 x 1.2 = 12.6 V

[How to operate]

- (1) Initiate the DIAG mode and display the following items. (See the section 1.4.2.)
- Alarm detection voltage display

子:占吊:XX:X;;; (Factory setting: 11.1 V)

• End detection voltage display

3:5E.XX.X.u (Factory setting: 10.5 V)

- (2) Set the detection voltage by pressing the [SELECT] button.
- ightarrow Display data blinks. The display data increase every 0.1 V each time the [SELECT] button is pressed.
- → While the display data is blinking, pressing the [MENU] button allows display of the "Abort" sign for approx. two sec., then the DIAG mode ends without saving the data.

- (3) Press the [DATA SET] button.
- → The setting data is saved in the EEPROM. During saving, the SAVE display appears for one sec.approx.

If the alarm detection voltage is set lower than the end detection voltage, the alarm display occurs when the battery voltage falls to the alarm detection voltage. End display appears in several seconds regardless of the end detection voltage.

1.4.5 How to set the setup menu (Group 4)

With a setup menu setting of DIAG mode, menu settings for both users and services are available.

- (1) Initiate the DIAG mode and select the setup menu item. (See the section 1.4.2.)
- (2) Select the setting values with the [SELECT] button.
- (3) Press the [DATA SET] button.
- → The setting data is saved in the EEPROM. During saving, the SAVE display appears for one sec.approx.

3:-5:Au.E-

Menu names	Counter displays	Details
TCG DROP/NON-DROP (only U version)	4:Ec G :dF :nF	Menu for users (See page 21 of the instruction manual.)
U-BIT SLAVE ON/OFF	4:EE Ub:on :oF	Menu for users (See page 21 of the instruction manual.)
TC OUT	4: Ea u E: E G : E h	Selection of TC OUT terminal output tG: Time code generator output th: Through output of TC IN terminal input
SUB TC DATE STYLE	4:0P Ub:00 :0 I :02	Selection of the data order of the SUB TC U-BIT (Year/Month/Day calendar) 00: Year/Month/Day 01: Month/Day/Year 02: Day/Month/Year
PHASE CORRECTION	H:Ph crion ioF	Selection whether to execute the phase compensation of TC OUT terminal output on: Execute the phase compensation oF: Not execute the phase compensation
U-BIT BINARY GROUP FLAG	4:Ub Gr :00 :0 1 :02 :03	Setting of the binary group flag of the user's bits 00: Not appointed as character sets 01: ISO character 02/03: Not specified
AUTO TRACKING	4:AE Erian :oF	Selection whether to operate the auto tracking during the PLAY mode. on: Operate oF: Not operate. At this time, the tracking VR inside the connector box is effective.
BATT. TYPE	4:6A EE: 12 : 13 : 14	Menu for users (See page 21 of the Instruction manual.)
LONG PAUSE TIME	4:Ln GP:0 1 :05 :30 :	"" (prohibition of long pause) cannot be set at the menu for users (see page 21 of the Instruction manual).
AUDIO LOW CUT-IN	4:Lc UE:an :aF :0 1 :02	Menu for users (See page 21 of the Instruction manual.)
ECC	4:Ec c :on :oF	ON/OFF of the cancellation circuit of the error compensation on: Compensation errors. oF: Non compensation errors.
TRAP	4:Er RP:on :oF	ON/OFF of SC trap circuit of the video output system on: Operate trap circuit. oF: Not operate trap circuit.
STOP FUNCTION	4:55 Fn:an :aF	Operation when the STOP button is pressed during the PLAY mode. on: REC PAUSE initiates after rewinding the amount of back space. oF: STOP mode initiates.

Table 1.4.5 (1) Setup menu

1.4.6 Software version display (Group 5)

These items allow confirmation of software versions in use without removing the outer case of the set. The details of the displays are shown below.

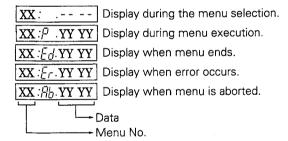
Menu names	Counter display	Board names Symbol No.	Remarks
SYSCON/SERVO version	5:59 <u>x</u> . <u>xx</u>	S/S REG board IC9	PLSL1019-V <u>X-XX</u>
AV micro computer version	5:Au 1: <u>XX</u>	PV PROCESS board IC18	UPD78P58YGC-2 <u>XX</u> (U ver.) UPD78P58YGC-4 <u>XX</u> (E ver.)
LCD micro computer version	51 _c 1 <u>xx</u>	AUDIO & LCD board IC401	UPD78P054GC-4 <u>XX</u> (U ver.) UPD78P054GC-5 <u>XX</u> (E ver.)

Table 1.4.6 (1) Software version display

1.4.7 Self-diagnosis mode (Group 6)

Twenty-one menus are provided in the self-diagnosis mode to check the internal operation of the set. Pressing the [SELECT] button after selecting a menu allows starting of the self-diagnosis

At this time, the following displays appear on the counter display.



(1) Detection of servo reference signal

This menu allows checks if the servo reference signal is being supplied normally to the S/S micro computer.

[How to operate]

During the above a menu is displayed, the result of the diagnosis is displayed when the [SELECT] button is pressed.

If an error display appears, check if the TSR signals (75 Hz) generated from DCI-P (PV PROCESS board IC8-pin120) is supplied to the S/S micro computer (S/S REG board IC14-pin67).

(2) Tracking data display



This menu allows display of the present tracking phase data.

[How to operate]

During the above a menu is displayed, the tracking data (hexadecimal number) is displayed when the [SELECT] button is pressed.

Display sample //:Ed.05:bF

In case the tracking data during the alignment tape MSHP-X playback is out of the area either the "6097" H - "61C1" or the "0000" H - "0EA8" H, X values may be misadjusted.

(3) Mechanism operation check (without a cassette)

12: .----

This menu is used for checking the mechanism operation.

[How to operate]

With the above display, pressing the [SELECT] button allows the starting of the mechanism automatically without inserting a cassette tape to check if there is any abnormality in the mechanism. The result of the diagnoses is displayed as follows.

In the data area of the error display, the data "X", "Y" and "Z" (hexadecimal number) which indicate abnormal points are displayed. Correspond them to the table below in order to detect any abnormal occurrence points. In the tables, the mark "O" is provided for the points where an abnormality occurs. For example, if "12: ER. 00 40" is displayed, it means that data "Y" is "4", so that you can tell that the abnormality of "Capstan motor does not rotate" has occurred by Table 1.4.7 (2).

Display "X"	0	1	2	3
Unloading failed.			0	0
Loading failed.		0		0

Table 1.4.7 (1) Mechanism operation abnormality display "X"

Display "Y"	0	1	2	3	4	5	6	7
Capstan motor does not rotate.					0	0	0	0
Drum motor does not rotate.			0	0			0	0
Reel brake does not work.		0		0		0		0

Table 1.4.7 (2) Mechanism operation abnormality display "Y"

Display "Z"	0	1	2	3	4	5	6	7	8	9	Α	b	C	d	Ε	F
TU reel does not rotate.									0	0	0	0	0	0	0	0
SUP reel does not rotate.					0	0	0	0					0	0	0	0
Condensation has occurred.			0	0			0	0			0	0			0	0
Tape LED abnormality		0		0		0		0		0		0		0		0

Table 1.4.7 (3) Mechanism operation abnormality display "Z"

(4) Mechanism operation check (with a cassette)

/ 3: .-- --

This mode is used for checking a mechanism operation.

[How to operate]

During the above displays, inserting a cassette tape allows the start of the mechanism automatically in order to diagnose if there is any abnormality.

• Normal / 3:Ed:00:00
• Abnormal / 3:Er:00 XY

In the data area of the error display, the data "X" and "Y" (hexadecimal numbers) which indicate abnormal points are displayed. Correspond them to the table below to detect any abnormal occurrence points. In the table below, the mark "O" is provided for the points where an abnormality occurrence.

Display "X"	0	1	2	3	8	9	Α	b
Unloading failed.					0	0	0	0
Loading failed.			0	0			0	0
TU reel abnormality		0		0		0		0

Table 1.4.7 (4) Mechanism operation abnormality display "X"

Display "Y"	0	2	4	6	8	Α	С	Ε
SUP reel abnormality					0	0	0	0
End sensor abnormality			0	0			0	0
Begin sensor abnormality		0		0		0		0

Table 1.4.7 (5) Mechanism operation abnormality display "Y"

(5) EEPROM writing check

I Ч: .-- --

This menu allows checks if the data has been written to EEPROM (S/S REG board IC34) correctly ornot.

[How to operate]

During the above display, pressing the [SELECT] button allows a start of the diagnosis and displays the results as follows.

• Normal | 1 4:Ed:00 00 |
• Abnormal | 1 4:Er:00 00 |

(6) Switching points check

15: .----

This menu allows us to measure the switching points during playback.

[How to operate]

After pressing the [SELECT] button during the above display, insert a cassette tape in order to initiate the PLAY mode. An S/S micro computer starts measuring the switching points and displays the results of the measured data (hexadecimal numbers) as follows.

The measured data "YY" should be in the area between "0C" H - "F4" H. If it is out of this area or an error display appears, check the switching point auto-adjustment (Menu No. 64) and also if an HID signal (position information of a rotation head) and SPA signal (recording position information of ITI signal on the tape pattern, S/S REG board IC14-pin56) are correctly supplied to S/S micro computer.

(7) Sync. count check

21: .---

This menu allows us to check if the DCI-P (PV PROCESS board IC8) can read the playback signal data correctly or not.

[How to operate]

After pressing the [SELECT] button during the above display, insert a cassette tape in order to initiate the PLAY mode. The DCI-P starts checking the sync. data playback signals for each head and displays the result as follows.

In case the data cannot be detected correctly, an error display as above appears.

Correspond the display data "Y" to the table below in order to find out which head's output has an abnormality.

Display "Y"	0	1	2	3	4	5	6	7	8	9	Α	b	С	d	Ш	F
CH2 Primary head									0	0	0	0	0	0	0	0
CH2 Trailing head					0	0	0	0					0	0	0	0
CH1 Primary head	l l		0	0			0	0			0	0			0	0
CH1 Trailing head		0		0		0		0		0		0		0		0

Table 1.4.7 (6) Sync. count error data

In case the error display appears, there may be some dust on the rotation head or its service life is coming to an end, also the RF equalizer (RF PROCESS board IC301, IC401) may be misadjusted or DCI-P (PV PROCESS board IC8) may be damaged.

(8) I2C bus communication check

23: .-- --

This menu allows us to diagnose if the AV micro computer (PV PROCESS board IC18) communicates correctly with each of the digital process ICs on the PV PROCESS board.

[How to operate]

During the above display, pressing the [SELECT] button allow us to start diagnosis and display results as follows.

● Normal 21:Ed.00:00

• Abnormal 21:Er.0X YZ

If any communication error occurs, data "X", "Y" and "Z" which indicate the abnormality points are displayed on the above error display. Correspond them to the table below in order to find out in which IC the communication abnormality has occurred.

Display "X"	0	1	2	3	4	5	6	7	8	9	Α	þ	С	d	Ε	F
AUDIO-2 (IC352)									0	0	0	0	0	0	0	0
AUDIO-1 (IC351)					0	0	0	0					0	0	0	0
SHUFF (IC9)			0	0			0	0			0	0			0	0
ECC-2 (IC43)		0		0		0		0		0		0		0		0

Table 1.4.7 (7) I²C bus communication error data "X"

Display "Y"	0	4	8	С
ECC-1 (IC41)			0	0
DCI-P (IC8)		0		0

Table 1.4.7 (8) I²C bus communication error data "Y"

Display "Z"	0	1
DCI-R (IC7)		0

Table 1.4.7 (9) I²C bus communication error data "Z"

(9) Tape condition check

ē4: .---

This menu judges the tape playback condition from the numbers of errors detected by DCI-P (PV PROCESS board IC8) during playback and displays the results classified by four different levels.

[How to operate]

During the above display, press the [SELECT] button, then insert a cassette tape to initiate the PLAY mode to display the tape conditions as follows.

24:Ed.00 00Hardly any errors24:Ed.00 01Some errors24:Ed.00 02Many errors24:Ed.00 04Normal playback is not possible.

If error rate level "4" is displayed, there may be some dust on the rotation head or its service life is coming to an end, The RF equalizer (RFP board IC301, IC401) may be misadjusted or the DCI-P (PV PROCESS board IC8) may be damaged.

(10) Error rate measurement



This menu displays how many inner errors have occurred at the sync. block during two frames.

[How to operate]

Press the [SELECT] button, then insert a cassette tape to initiate the PLAY mode in order to display the error rate (hexadecimal numbers) as follows.

(11) Concealed count

This menu displays the numbers of error corrections of the video data carried out by the ECC (PV PROCESS board IC41, IC43) per frame.

[How to operate]

Press the [SELECT] button, then insert a cassette tape in order to initiate the PLAY mode. The AV micro computer starts measuring the concealed count values in order to display the result as follows.

(12) SW operation, LCD/LED display confirmation

This menu is used for checking if the OPERATE SW and LED/LCD displays are operating correctly.

[How to operate]

Press the [SELECT] button to initiate this menu. The operation check is available with the following procedures.

- While the FF, REW, STOP, PLAY or EJECT button is pressed, the corresponding LED lights.
- While the [PRESET] button is pressed, all the segments of LCD light.
- While the [RESET] button is pressed, all the segments of the LCD turn off.
- The switch operation can be checked with a display on the COUNTER DISPLAY.

A: [COUNTER] switch setting

2: "UB" side, 1: "TC" side, 0: "CTL" side

B: [TC GENERATOR] switch setting

1: "PRESET" side, 0: "REGEN" side

C: [TC GENERATOR] switch setting

1: "REC" side, 0: "FREE" side

D: [TC DISP] switch setting

1: "TC" side, 0: "SUB TC" side

(13) Tracking VR test



This menu is used for an operational check of the tracking VR inside a connector box.

[How to perform the operation]

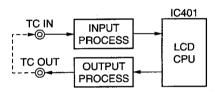
Set the auto tracking setting "4: At tr" of the setup menu to "oF", then select the tracking VR test "35: .-- -- ". In this condition, pressing the [SELECT] button allows to display

When the tracking VR is turned on, if the display data varies beyond the area between "40" - "C0", the tracking VR is normal.

(14) LTC loop test



This menu diagnoses the input/output circuit of the LTC by checking if the LTC reader (AUDIO&LCD board IC401) correctly reads the test signals generated from the LTC generator (AUDIO&LCD board IC401).



[How to operate]

During the above display, press the [SELECT] button, then carry out the loop connection between the $\top C$ IN terminal and the TC OUT terminal.

The results of the diagnostics are displayed as follows.

During execution ☐ :P : ☐ ☐ ☐ (if the loop connection is now provided, the display will not be changed.)
 Normal ☐ :F : I : ☐ ☐ ☐ ☐

Abnormal

3c:Ed:00:00 3c:Er:00:00

(15) TC reference signal detection



This menu allows to check if any FRP signals (AUDIO&LCD board IC401 - pin64) which are standard for the running of the time code data, are being supplied to the TC generator.

[How to operate]

During the above display, pressing the [SELECT] button allows to start diagnostics and displays the results as follows.

• Normal 3E:Ed:00 00

(16) Board connection check

44: .----

This menu allows us to check if the FFC cable provided between the S/S REG board and each board are connected properly.

[How to operate]

During the above display, pressing the [SELECT] button allows us to start the diagnosis and displays the results as follows.

In case there is a malfunction in the FFC cable connections, the data "X", "Y" and "Z" (hexadecimal numbers) indicates abnormal points with the above error display. Correspond them to the table below in order to find out in which board connected to the S/S REG board has the FFC cable connection malfunction occurred.

Display "X"	0	1
OPERATION board CN1		0

Table 1.4.7 (10) Board connection check error data "X"

Display "Y"	0	2	8	Α
MECHA I/F board CN1			0	0
RFP board CN604		0		0

Table 1.4.7 (11) Board connection check error data "Y"

Display "Z"	0	2	8	Α
AUDIO&LCD board CN8			0	0
PV PROCESS board CN10		0		0

Table 1.4.7 (12) Board connection check error data "Z"

(17) JVC bus communication check

45: .----

This menu allows to diagnose if the S/S micro computer (master CPU) and each slave CPU (AV micro computer, LCD micro computer) are communicating correctly.

[How to operate]

During the above display, pressing the [SELECT] button allows to start the diagnosis and displays the results as follows.

- Normal 46:84:00 00
- Abnormal (X:3 = AV micro computer, 5 = LCD micro computer)

When any communication error occurs, it locates which of the communications with the CPU caused the error and displays the information on the above error display.

(18) RF record current adjustment data display

4 _C :	CH1 Leading head
Чd:	CH1 Lagging head
4E:	CH2 Leading head
Ч <u>F</u> :	CH2 Lagging head

This menu is used for confirming the adjustment values set by a recording current auto adjustment.

[Operation]

During the above display, pressing the [SELECT] button allows us to display the adjustment values for each head with hexadecimal numbers.

4c:Ed:00 Y Y	CH1 Leading head adjustment data
4d:Ed:00 YY	CH1 Lagging head adjustment data
4E Ed 00 YY	CH2 Leading head adjustment data
4F:Ed:00 YY	CH2 Lagging head adjustment data

1.4.8 Adjustment mode (Group 7)

There are two menus which are provided for the adjustment mode; an auto adjustment menu to carry out the adjustment automatically and a setting menu to initiate the adjustment mode. How to execute each menu is explained in the corresponding adjustment item or the table below.

Menu names	Display	VTR operation	Remarks
Search audio x1 playback	(while menu is selected)	Search audio is output during the PLAY mode. It accepts a VHS cassette, then the tape is run with the VHS SP mode speed. However, the picture and the HiFi audio cannot be played back.	2.10.3 A/C head azimuth adjustment 2.10.4 A/C head height adjustment
Capstan FG duty/gain auto adjustment Capstan FG duty/gain (while menu is selected)		Adjust the duty ratio of the capstan FG to 50%. Carry out the gain adjustment of the capstan FG. (stop servo adjustment) No operation can be executed during the auto adjustment.	3.5.1 Capstan motor automatic adjust- ment

Table 1.4.8 (1) Adjustment modes-1/3

Menu names	Display	VTR operation	Remarks
Reverse torque adjustment	5F: (while menu is selected)	It accepts a torque cassette for the VHS. Winding torque adjustment during the running of the REV is available. While the menu is being executed, the tape is always run by a capstan motor drive even if the FF/REW button is pressed. The tape speed of the search REV mode is then fixed to -1X speed.	2.9.2 Reverse torque adjustment
Unloading the torque adjustment	[]: (while menu is selected)	It accepts a torque cassette for the VHS. During the search REV mode, the supply reel is rotated with a winding torque while unloading. While the menu is executed, the tape is always run by a capstan motor drive even if the FF/REW button is pressed. The tape speed of the search REV mode is fixed to -1X speed.	2.9.1 Unloading torque adjustment
PLAY torque adjustment	「こ: (while menu is selected)	It accepts a torque cassette for VHS. A winding torque adjustment of the take- up reel during the FWD is available. While the menu is executed, the tape is always run by a capstan motor drive even if the FF/REW button is pressed. The tape speed of the search REV mode is fixed to normal speed.	2.9.3 PLAY torque adjust- ment
Emergency roll mode	[]; (while menu is selected)	In case abnormal tape slack occurs, it drive the reel motor with low torque to wind up the slacked tape.	Refer to the section 1.10 How To Eject The Tape In Emergency.
Switching point auto adjustment	등년: (while menu is selected)	The switching point adjustment is carried out automatically.	3.5.3 Playback switching point adjustment
Manually loading/unloading	(while menu is selected) (while menu is selected) (during playing) (5:Ed.000000000000000000000000000000000000	The loading and unloading can be carried out without inserting a cassette. If a cassette is already inserted, it eject the cassette, then starts this menu.	[How to operate] Select the menu with the [SELECT] button, then press the button below while pressing the [OPERATE] button. [FF]: Loading [REW]: Unloading
Manual loading motor control	(while menu is selected) [[]:[]:[]:[]:[]:[]:[]:[]:[]:[]:[]:[]:[]:	The loading motor can be rotated manually without inserting a cassette. If a cassette is already inserted, it eject the cassette, then start this menu.	[How to operate] Select the menu with the [SELECT] button, then press the button below while pressing the [OPERATE] button. [FF]: Rotates for 34 ms towards the loading direction [REW]: Rotates for 34 ms towards the unloading direction

Table 1.4.8 (1) Adjustment modes-2/3

Menu names	Display	VTR operation	Remarks
X value adjustment	「ロー・ロー・ロー・ロー・ロー・ロー・ロー・ロー・ロー・ロー・ロー・ロー・ロー・ロ	Auto tracking becomes OFF. Tracking the VR becomes invalid and playback starts at the tracking preset position.	2.10.5 X value adjustment
Tracking Preset auto adjustment	(while menu is selected)	The tracking is varied and the tracking position where an RF level becomes maximum, is searched automatically.	3.5.2 Tracking preset adjustment
VHS cassette acceptance	[2]: (while menu is selected)	It accepts a VHS cassette.	[How to operate] [SELECT]: Play [DATA SET] : End
Linearity measurement	(while menu is selected)	Linearity measurement mode is initiated with the RS-232C control. Auto tracking becomes OFF and the tracking VR becomes invalid.	2.12 CHECK OF LINEARITY
Tape pass running	(while menu is selected) [] [] [] Y (while running is executed) [] [] [] [] [] F (when the 15 passes are completed) [] [] [] [] Y (Error display)	When a cassette is inserted, it repeats PLAY mode (8 times) and SRH REV mode (7 times) on the same section of the tape (approx. 30 sec.), then eject the tape. While the running is being executed, the number of the executed running is displayed at "Y" with hexadecimal numbers. While the running is being executed, if the [DATA SET] button is pressed or the VTR mode is changed, or a tape end is detected during PLAY, an error message is displayed.	[How to operate] Select the menu by pressing the [SELECT] button, then insert a cassette on which a recording has been done.
RF REC1/4 CLK	[: (while menu is selected) [: : : : : : : : : : : : : : : : : : :	Recording 1/4-divided clock (approx. 12.4MHz)	[How to operate] Select the menu by pressing the [SELECT] button, then record the internal clock.
RF recording current auto adjustment	רבי: (while menu is selected)	It varies the recording current value with 16 steps at every 4 sec. and records the internal oscillation clock (approx. 12.4 MHz). This process is repeated four times. (It takes a little more than four minutes.) Then, it plays back the recorded section automatically and detects the best recording current value out of the output levels for each head.	3.6.6 Recording current adjustment
Battery voltage detection auto adjustment	(while menu is selected)	S/S micro computer (S/S REG board IC14) measures the voltage at pin 68 and writes the difference between that value and the optimum value as the compensation value of the battery detection circuit on the EEPROM.	3.4.3 Remaining battery defection circuit adjustment

Table 1.4.8 (1) Adjustment modes-3/3

1.4.9 Warning history display

In the menu of this group, the following data regarding the last four warnings occurring can be displayed.

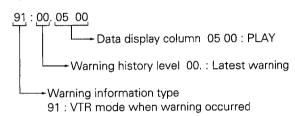
Display at the selected menu	Type of warning information
9[]:YY:	Warning code (Refer to the section 1.6)
9 /:YY	VTR mode when the warning occurred. (Refer to the table 1.4.9 (2).)
92:YY	VTR mode before the warning occurred. (Refer to the table 1.4.9 (2).)
93: Y Y	The last operate button to be pressed when the warning occurred. (Refer to the table 1.4.9.(3).)
94: Y Y	Power ON accumulated time [unit: hour] when the warning occurred.
95: YY	The battery voltage [unit: V] when the warning occurred.

Table 1.4.9 (1) Types of warning information

[How to operate]

- (1) Initiate the DIAG mode and select the group 8. (Refer to the section 1.4.2.)
- (2) Select the type of warning information with the [ITEM] button
- (3) Select the warning history level with the [SELECT] button.
- (4) Pressing the [DATA SET] button allows us to display data regarding the selected information.

[Display example]



Data	VTR mode	Data	VTR mode	Data	VTR mode
03.00	SEARCH FWD	0d 00	STOP	80 O I	REC BACK SPACE
04 00	SEARCH REV	13.00	SKIP FWD	<i>80 02</i>	REC PAUSE
05 00	PLAY	14 00	SKIP REV	<i>80 0</i> 4	REC PLAY
0700	NO CASSETTE (EJECT)	19 00	FF	80 IO	REC
09 00	EJECT	IR 00	REW	8101	ASSM BACK SPACE
0A 00	NO CASSETTE (INTAKE END)	<i>15 00</i>	SHORT FF	8104	ASSM PLAY
0c 00	STAND-BY OFF	lc 00	SHORT REW	92 02	REC LOCK

Table 1.4.9 (2) VTR mode data

Data	Operate button	Data	Operate button	Data	Operate button
30 00	EJECT	33 00	REW	42.00	REC+PAUSE
3 1 00	STOP	40 00	PLAY	45 00	STANDBY
32 00	FF	4100	REC+PLAY	46 00	REVIEW

Table 1.4.9 (3) Operate button data

1.4.10 Service item menu (Group 9)

In the menus of this group, the following menus are to carry out the data processing for the setup menu and the hour meter.

Menu selection displays	Functions
6 1:5A u.E	Save the setting data for the setup menu.
62:La Rd	Set the setup menu to the setting saved at "b 1:58 uE".
63: In IE	Set the setup menu to the factory set.
64:Er RS	Delete the warning history data.
67:Hr LL	(For factory use only)
68:En.L	(For factory use only)

Table 1.4.10 (1) Service items menu

[How to operation]

- (1) Initiate the DIAG mode and select group 9. (Refer to the section 1.4.2.)
- (2) Select the [ITEM] button on the menu.
- (3) Pressing the [DATA SET] button allows execution. While the data is being written in the EEPROM, the "on" message is displayed for approx. one sec.

[Display example]

61 :58.uE.on

1.5 HOW TO DETECT THE ALARM

The BR-D40 provides alarm display functions in order to inform users of the remaining condition of the tape and battery. This section explains how to detect them. Please refer to page 31 in the INSTRUCTIONS regarding the alarm display details.

Items	Conditions	Detecting methods
Servo lock error "SERVO"	At the IN point of the continuous recording, this occurs if a drum rotation phase error happens for more than 450 micro s or if the capstan motor rotation speed varies more than 6%.	S/S micro computer (S/S REG board IC14) detects the drum rotation phase from the phase difference between the TSR signal and the ID signal, and the capstan motor speed from the frequency of the CAP x 2FG signal.
Head clog "RF"	This occurs when the RF signal is lacking for one second during the back space operation. (However, it also enters the alarm mode if the signal is lacking for 0.5 second just before ending the back space operation.)	It judges that the RF signal is lacking when the RF level detection circuit output (S/S REG board IC32 - pin17) becomes lower than 0.27 V.
Lithium battery fault "Li"	This occurs when a lithium battery is exhausted or is not installed.	When the input voltage (AUDIO&LCD board IC 418 - pin4) of the battery backup switching circuit becomes lower than 2.7 V, the signal at the PREEND terminal (pin2) is at a low level. This results in the Alarm mode being entered.
Tape remaining time	This occurs when the remaining tape is less than 2 min. during recording or the recording pause function, or when the tape end is detected during recording.	S/S micro computer (S/S REG board IC14) detects the tape remaining time from the diameter of the supply reel and the tape end from the end sensor output.
Battery remaining time E NOTE: TOTAL STATE OF THE PARTY OF THE PART	This occurs when the battery capacity is insufficient.	The S/S micro computer (S/S) REG board IC14) detects the battery voltage from the voltage at pin68. When 12 V battery is used: Approx. 1.19 V When 13 V battery is used: Approx. 1.84 V When 14 V battery is used: Approx. 2.43 V (Alarm detection voltage setting: at 11.1 V)

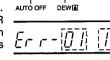
Table 1.5 (1) How to detect the alarms

1.6 ERROR CODES

The BR-D40 diagnoses the causes of malfunctions and displays the error codes. The procedures of each error detection are explained below.

 Dew condensation indicator: —— Lights when error code is "02:1".

Auto-OFF indicator:
 Lights depending on the error codes.
 When this indicator lights, the VCR will automatically stop the operation or eject the cassette, and VCR does not any operation.



01:1 Disconnection or short circuit of LEDs for leader tape detection

• VTR operation: This ejects a cassette.

If a cassette is not inserted, one cannot be accepted until the warning is released.

• [AUTO OFF] display in the LCD: Not lit.

• Causes:

Disconnection of the tape LED

How to detect: When the IC14 - pin75 (normally approx. 1.1
 V) becomes 250 ms or more and 3 V or more or 0.5 V or less.

02:1 Condensation

VTR operation: It enters the AUTO OFF mode. When a cassette is not inserted, the drum motor starts rotation. When the condensation is cleared, the warning is released automatically and normal operation will start.

• [AUTO OFF] display in the LCD: Lit.

Causes: Condensation or a malfunction of the DEW sensor

 How to detect: When the DEW sensor output (IC14 - pin73) becomes 3 V or more, it enters the warning mode. When it becomes 2 V or less, the warning is released.

32:1 The loading cannot be completed

 VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.

• [AUTO OFF] display in the LCD: Not lit.

• Causes:

Malfunction of a mode sensor, a loading motor, an MDA circuit (IC21) or a loading mechanism.

An inferior of a cassette tape.

 How to detect: The loading cannot be completed within eight seconds when it checks the mode sensor output (IC6 - pin19, 20, 21).

32:2 Tape slack during loading

 VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.

• [AUTO OFF] display in the LCD: Not lit.

 Causes: Malfunction of a loading mechanism (Stack of a guide roller) How to detect: When the 800 SP reel FG (IC14 - pin62) pulses (= 20 rotation) or more are output during the loading.

33:1 Unloading cannot be completed

• VTR operation: It enters the AUTO OFF mode.

• [AUTO OFF] display in the LCD: Lit.

Causes:

Malfunction of a mode sensor, a loading motor, an MDA circuit (IC21) or a loading mechanism.

An inferior of a cassette tape.

 How to detect: The unloading cannot be completed within eight seconds when it checks the mode sensor output (IC6 - pin19, 20, 21).

56:3 SP reel over run due to a tape breakage

 VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.

• [AUTO OFF] display in the LCD: Not lit.

Causes:

Tape breakage due to abnormal tension, insertion of a damaged tape or scratches on the mechanism running parts. Abnormal tape winding in a cassette.

 How to detect: When the SP reel FG (IC14-pin 62) becomes a high frequency exceeding the specific limit for 3 seconds or more during the capstan

REV mode.

56:4 TU reel over run due to tape breakage

 VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.

• [AUTO OFF] display in the LCD: Not lit.

• Causes: Refer to the error code "56:3".

 How to detect: When the TU reel FG (IC14-pin 63) becomes a high frequency exceeding the specific limit for 3 seconds or more during the capstan FWD mode.

56:5 The simultaneous detection of begin and end of the tape due to a tape breakage

 VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.

• [AUTO OFF] display in the LCD: Not lit.

• Causes:

Tape breakage due to abnormal tension, insertion of a damaged tape or scratches on the mechanism running parts.

A malfunction of the sensor may cause this error due to an exposure to sunlight or incandescence when the unit is used without an outer case.

 How to detect: When both the tape begin sensor (IC14 pin77) and the tape end sensor (IC14 - pin76) outputs are of a low level during loading.

56:6 Tape breakage during unloading

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- IAUTO OFFI display in the LCD: Not lit.

Causes:

Tape breakage due to abnormal tension, insertion of a damaged tape or scratches on the mechanism running parts.

 How to detect: When the 1200 SP reel FG (IC14 - pin62) pulses (= 30 rotation) or more are output during unloading.

56:8 Tape breakage during loading

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.

• Causes:

Refer to the error code "56:6".

 How to detect: When only the 20 SP reel FG (IC14 - pin62) pulses (= 1/2 rotation) or less are output during loading.

57:1 Short REW cannot be completed

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.

Causes:

Tape breakage due to abnormal tension, insertion of a damaged tape or scratches on the mechanism running parts.

A malfunction of the sensor may cause this error due to an exposure to sunlight or incandescence when the unit is used without an outer case.

Malfunction of the tape end sensor

How to detect: The tape end sensor output (IC14 - pin76) stays at a low level even when the 100 SP reel FG (IC14 - pin62) pulses (= 2.5 rotations) or more are output in the Short REW mode. (Short REW mode: When it detects the tape end soon after a cassette is inserted, it rewinds the tape equivalent to 2.5 rotations of the SP reel with approx. 5x-speed. This operation is called a Short REW mode.)

57:2 Skip REV cannot be completed

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.

• Causes:

Refer to the error code "57:1".

 How to detect: The tape end sensor output (IC14 - pin76) stays at a low level when the SP reel is rotated for five seconds or more in the Skip REV mode.

(Skip REV mode: When it detects the tape end at the loading end, it rewinds a leader tape at -1X speed. This operation is called a Skip REV mode.)

57: 4 Tape end detection during REV running

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.

Causes:

Refer to the error code "57:1".

 How to detect: The tape end sensor output (IC14 - pin76) becomes low level when a tape is wound in the REV direction.

58:1 Short FF cannot be completed

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes:

Tape breakage due to abnormal tension, insertion of a damaged tape or scratches on the mechanism running parts.

A malfunction of the sensor may cause this error due to an exposure to sunlight or incandescence when the unit is used without an outer case.

Malfunction of tape begin sensor

How to detect: The tape begin sensor output (IC14 - pin77) stays at a low level even when the TU reel is rotated for three seconds and the 50 TU reel FG pulses (= a little more than one rotation) are output in the Short FF mode.

(Short FF mode: When it detects a tape beginning soon after a cassette is inserted, it first forwards a tape equivalent to the leader.)

ginning soon after a cassette is inserted, it first forwards a tape equivalent to the leader tape with approx. 5x-speed. This operation is called a Short FF mode.)

58:2 Skip FWD cannot be completed

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes: Refer to the error code "58:1".
- How to detect: The tape begin sensor output (IC14 pin77) stays at a low level when the SP reel is rotated for five seconds or more in the Skip FWD mode.

(Skip FWD mode: When it detects a tape begin at the loading end, it first forwards a reader tape at normal speed. This operation is called a Skip FWD mode.)

58: 4 Tape begin detection during FWD running

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes:

Refer to the error code "58:1".

 How to detect: The tape begin sensor output (IC14 - pin77) becomes low level when a tape is wound to the FWD direction.

70:1 Abnormal rotation of a drum motor

- VTR operation: It enter the AUTO OFF mode.
- [AUTO OFF] display in the LCD: Lit. (However, it does not light during loading).

Causes:

Malfunction of a drum motor inside a drum

assembly or an MDA circuit.

Disconnection of a drum assembly.

Malfunction of a switching regulator circuit

(S/S REG board IC502)

How to detect: The drum FG (IC14 - pin65) cannot be detected for two seconds or more in the cor-

rect drum motor rotation mode.

71:1 Abnormal rotation of a capstan motor

- VTR operation: It enters the AUTO OFF mode.
- [AUTO OFF] display in the LCD: Lit.

Causes:

Malfunction of a capstan motor or an MDA circuit inside a capstan motor assembly. Disconnection of a capstan motor assembly. Malfunction of a switching regulator circuit (S/S REG board IC502)

How to detect: Any capstan FG (IC14 - pin 64) pulse is not

output for one second or more in the capstan drive mode (PLAY, REC, SEARCH FWD/

REV).

72:1 Tape is slack at the tape supply side during the capstan drive mode

- VTR operation: It enters the AUTO OFF mode.
- [AUTO OFF] display in the LCD: Lit.

• Causes:

Malfunction of a reel motor or a MDA circuit (S/S REG board IC31, Q26 - Q29).

Disconnection of the reel motor assembly. Malfunction of the switching regulator circuit (S/S REG board IC502).

Failure of a reel idler.

 How to detect: Any SP reel FG (IC14 - pin62) pulse is not output while the 6912 capstan FG (IC14 pin64) pulses (= 4.8 rotation) are generated in the capstan drive mode (PLAY, REC.

SEARCH FWD/REV).

72:4 SP reel overrun when a cassette is not inserted

- VTR operation: It enters the AUTO OFF mode.
- [AUTO OFF] display in the LCD: Lights.

Causes:

Wrong detection of reel FG because of the interference of pulses.

Malfunction of reel MDA circuit (S/S REG

board IC31, Q26 - Q29).

 How to detect: When the SP reel FG (IC14-pin 62) becomes a high frequency exceeding the specific limit for 3 seconds or more without inserting a

cassette.

72:5 SP reel does not rotate during unloading

- VTR operation: It enters the AUTO OFF mode.
- [AUTO OFF] display in the LCD: Lights.
- Causes:

Refer to the error code "72:1".

How to detect: Only 20 SP reel FG (IC14 - pin62) pulses (=
 1/2 rotation) are output during unloading.

72:7 SP reel does not rotate during Short REW

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes: Refer to the error code "72:1".
- How to detect: Only 100 SP reel FG (IC14 pin62) pulses (=
 2.5 rotation) or less are output within five
 seconds during the Short REW mode.
 (Short REW mode: When it detects the tape
 end soon after a cassette is inserted, it re winds the tape equivalent to 2.5 rotations of
 an SP reel with approx. 5x-speed. This op eration is called a Short REW mode.)

73:1 Tape slack at the take-up side during the capstan drive mode

- VTR operation: It enters the AUTO OFF mode.
- [AUTO OFF] display in the LCD: Lights.
- Causes: Refer to the error code "72:1".
- How to detect: Any TU reel FG (IC14 pin63) pulse is not output while the 6912 capstan FG (IC14 pin 64) pulses (= 4.8 rotation) are generated in the capstan drive mode (PLAY, REC, SEARCH FWD/REV).

73:4 TU reel overrun without a cassette insertion

- VTR operation: It enters the AUTO OFF mode.
- [AUTO OFF] display in the LCD: Lights.
- Causes: Refer to the error code "72:4".
- How to detect: TU reel overruns without inserting a cassette, and the 40 TU reel FG (IC14 pin63) pulses (= one rotation) or more are output in a second.

73:7 SP reel does not rotate during Short FF

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes: Refer to the error code "72:1".
- How to detect: The tape begin sensor output (IC14 pin77) stays at a low level even if the TU reel is rotated for three seconds and the 50 TU reel FG pulses (= a little more than one rotation) or less are output in the Short FF mode. (Short FF mode: When it detects a tape beginning soon after a cassette is inserted, it first forwards the tape equivalent to the leader tape with approx. 5x-speed. This operation is called a Short FF mode.)

1.7 EEPROM

IC34 on the S/S REG board is an EEPROM which can erase and write electrically and stores the following data regarding DIAG mode.

Stored data	In EEPROM replacement
[Group 1] Data of hour meter	All data will be reset.
[Group 3] Setting data of the battery alarm/end detection voltage	Returns to the factory setting
[Group 4] Setting data of setup menu (Including menus for users)	Returns to the factory setting
[Group 7] Adjusted data set at the Adjustment mode	Returns to the factory setting
[Group 8] Data regarding to the Warning history	All data will be deleted.
[Group 9] Setting data of the setup menu saved at the DIAG menu "b1"	All data will be deleted.
Model name, serial No. (only to be used at the factory)	All data will be deleted.

Table 1.7 (1) EEPROM stored data

When the EEPROM is replaced, the following adjustment data for the group 7 return to the factory setting applies. Make sure to readjust them again.

- (1) DIAG menu No. 5d: Capstan FG duty/gain auto adjustment
- (2) DIAG menu No. 5F: Reverse torque adjustment
- (3) DIAG menu No. 61: Unloading torque adjustment
- (4) DIAG menu No. 62: PLAY torque adjustment
- (5) DIAG menu No. 64: Switching point auto adjustment
- (6) DIAG menu No. 68: Tracking preset auto adjustment
- (7) DIAG menu No. 72:RF record current auto adjustment
- (8) DIAG menu No. 86: Battery voltage detection auto adjustment

1.8 LITHIUM BATTERY

BR-D40 employs a lithium battery (nominal voltage: 3 V) for the back up of the LCD micro computer. The data to be backed up is explained below.

- (1) Time code generator data (With free run mode, it keeps on counting during the execution of back up)
- (2) Date/Time data for SUB TC
- (3) Continuous recording IN point data
- (4) CTL counter data

IC418 on the S/S REG board performs switching to a lithium battery for backup.

This IC switches the power supply of the LCD micro computer to a lithium battery when the main voltage becomes 4.7 V or less. At this time, IC418 switches the "CS" output to low level, the LCD micro computer switches the clock oscillator to X402 and it will be operated with the sleep mode. Also, the IC418 detects the voltage of the lithium battery. When the voltage become 2.7 V or less, it switches the "PREEND" output to low level, then displays the alarm "Li" on the display.

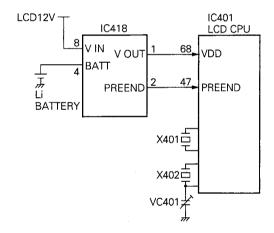
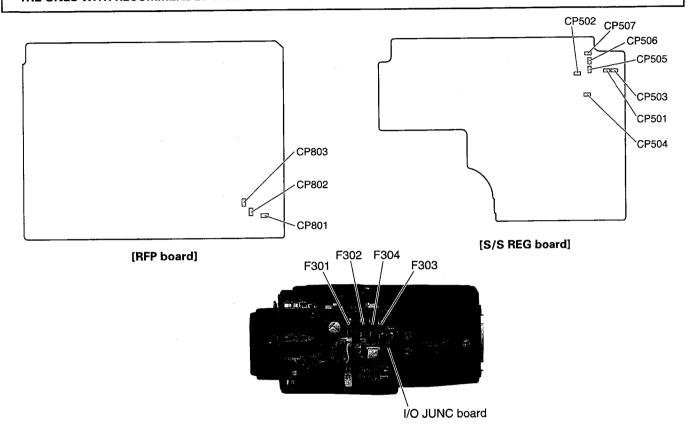


Fig. 1-8 Back up circuit

1.9 FUSES AND CIRCUIT PROTECTORS

- CAUTION: -

FOR PROTECTION AND SAFETY IN OPERATION, FUSES AND CIRCUIT PROTECTORS SHOULD BE REPLACED ONLY BY THE ONES WITH RECOMMENDED PARTS NOs.



Fib. 1-9 Fuse, circuit protector layout diagram

Board names	Symbol No.	Symptoms in disconnection	Parts Nos.
I/O JUNC	F301	Power cannot be turned on. (No power is supplied to the set.)	Refer to page 5-2
,,	F302	The power cannot be turned ON. (However, 12 V is output from DC OUT terminal and the camera connection terminal.)	Refer to page 5-2
	F303	The power is not supplied from a camera connection terminal to a camera.	Refer to page 5-2
	F304	12 V is not output from DC OUT terminal.	Refer to page 5-2
S/S REG	CP501	The loading motor does not rotate. The flying erase circuit does not operate.	Refer to page 6-28
-,	CP502	The power cannot be turned ON. (The SW regulator does not operate.)	Refer to page 6-28
	CP503	The power cannot be turned ON. (LCD micro computer does not operate.)	Refer to page 6-28
	CP504	48 V is not output from the AUDIO IN terminal.	Refer to page 6-28
	CP505	Malfunction of the battery voltage detection.	Refer to page 6-28
	CP506	No audio is output from the EARPHONE terminal.	Refer to page 6-28
	CP507	The battery alarm malfunctions when the voltage of the battery type is set at other than 12 V and 12 V is supplied from the DC IN terminal.	Refer to page 6-28
RFP	CP801	No picture and digital audio is not output.	Refer to page 6-22
	CP802	No picture and digital audio is not output.	Refer to page 6-22
	CP803	No picture and digital audio is not output.	Refer to page 6-22

Table 1.9 Symptoms in the disconnection of fuses and circuit protectors

1.10 HOW TO TAKE A CASSETTE OUT IN AN EMERGENCY

In case a cassette cannot be ejected because of malfunctions of the motor and mechanism systems, or any tape slack occurs, follow the procedure explained below to take the cassette out.

- (1) Remove the left side cover. (Refer to the section 1.1.2)
- (2) While observing the condition of the tape and mechanism, take the cassette out using one of the following procedures.
- How to wind a slack tape
 If a slack tape occurs when the unit is in the AUTO OFF mode, the tape should be wound with the emergency role function.
- (1) Press the "STOP" and the "OPERATE" buttons simultaneously for three sec. or more in the AUTO OFF mode or immediately after the power is turned on.
- (2) Confirm that the LCD counter displays "[-]:P . [] [] [] ", then press the "REW" button while pressing the "OPER-ATE" button. (The supply reel winds the tape for approx. 80 ms.)
- (3) Repeat the procedure (2) to wind up the tape slack, then press the "MENU" button to cancel the emergency role function
- (4) Press the "EJECT" button to take the cassette out.
- How to take a cassette out manually
 If the emergency role function does not operate because of
 a malfunction of the reel motor, or the unloading does not
 operate because of a malfunction of the loading motor, fol low the procedure explained below to take a cassette out.
- (1) Take out the PRE/REC board and the S/S REG board. (Refer to the section 1.2.6)
- (2) Remove the screw 1 and the spring hook (A) in order to loosen the timing belt.
- (3) Take the timing belt out at the mode motor side.

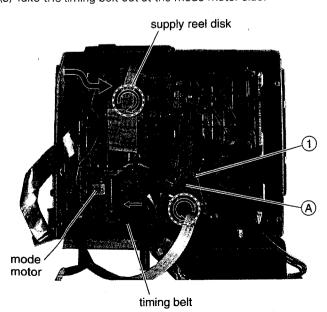


Fig. 1.10 How to take a cassette out manually

- (4) Turning the timing belt in the direction shown in the Fig. 1.10 allows performing of the unloading and eject functions. Any tape slack occurring with this procedure should be wound by inserting a finger from the direction shown with an arrow in the diagram in order to turn the supply reel disk.
 - * Refer to section 2.7.12 for instructions on installing the timing belt.

1.11 OPERATIONS OF SWITCHES AND SENSORS

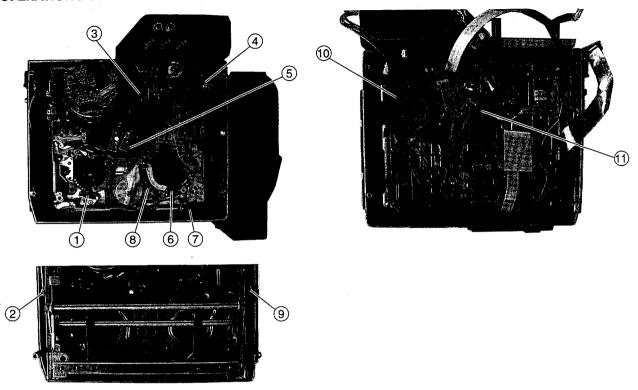


Fig. 1-11-1 Switches and sensors layout

(1) Supply reel FG

40 pulses are output during a cycle of the reel disk.

(2) End sensor

This detects the tape end.

(3) Dew (condensation) sensor

This detects condensation.

(4) After loading sensor

This detects the mechanism positions together with the mode sensor (11).

(5) Tape LED

This illuminates in order to detect the tape end and beginning.

(6) Takeup reel FG

This detects the rotation of a takeup reel.

40 pulses are output during a cycle of the reel disk.

(7) Cassette switch

Three switches are built in.

Outside switch: It detects pits for mis-erase prevention.

Center switch: It detects a digital S cassette.

Inside switch : Not used.

(8) Housing lock switch

Detects the opening and closing of a cassette housing.

(9) Begin sensor

Detects a tape beginning.

(10) Capstan MR

Generates sine waves with a frequency proportional to the rotation speed with a 2-phase output rotation sensor using MR elements.

(11) Mode sensor

Detects mechanism positions and outputs three different signals as explained in Fig. 1.11.2.

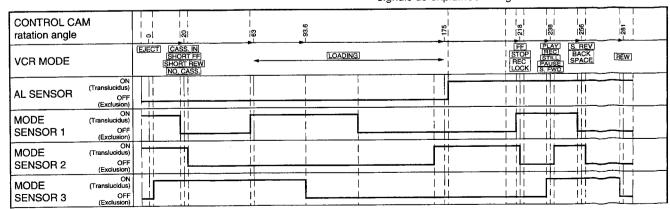


Fig. 1-11-2 Functions of Mode/AL sensors

1.12 SPECIFICATION FOR THE 50PIN CONNECTOR

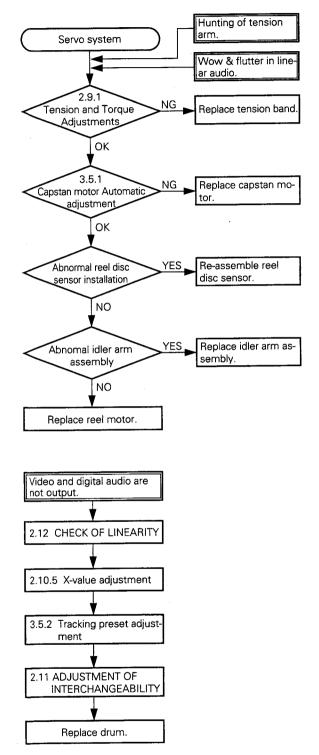
_		_
	17 18 15 14 13 12 17 10 9 8 7 6 5 4 3 2 1	ı
i	(33) (32) (31) (32) (23) (23) (23) (23) (23) (23) (23	-/
	99 99 99 99 99 99 99 99 99 99 99 99 99	1

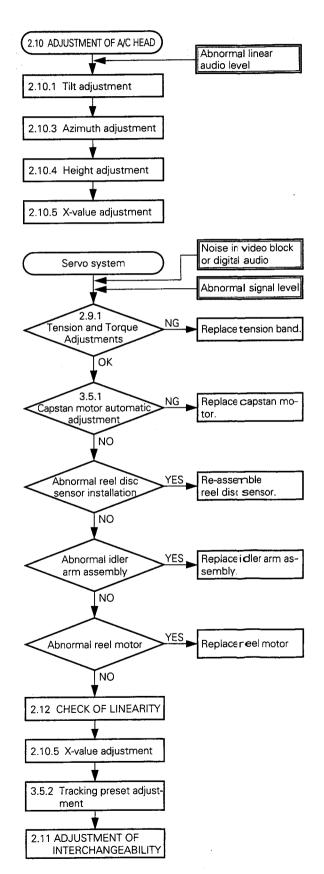
PIN No.	Name	Specs.	PIN No.	Name	Specs.
1	5 V IN	+5 VDC IN	36	B-Y IN	0.7 Vp-p (U ver.)
2		NC			0.525 Vp-p (E ver.)
3		NÇ			Zi: 1 kΩ
4		NC	37		NC
5	POWER GND	GND	38	PB (L) OUT	<u></u>
6	POWER GND	GND	_		PB (H) ○ 1K (38)
7		NC .	_		13(1)
8		NC			777
9		NC	39	POWER SUPPLY	MAX 1.7 A
10		NC	40	POWER SUPPLY	MAX 1.7 A
11		NC	41	YIN	1 Vp-p [SYNC 0.286 Vp-p] (U ver.)
12		NC			1 Vp-p [SYNC 0.3 Vp-p] (E ver.)
13	VTR ID OUT	GND			Zi: 1 kΩ
14		NC	42	GND	GND
15	MIC1 GND	GND	43		NC
16	MIC1 COLD	-20 dBs / 10 kΩ BALANCED	44		NC
17	MIC1 HOT	-20 dBs / 10 kg BALANCED	45	CAMERA ID IN	KY-D200: LOW
18	RET. VIDEO OUT	1.0 Vp-p / 100 Ω	46	S-VHS (L) OUT	5V—
19		NC			
20		NC			46
21	GND	GND			10K
22	MIC2 GND	GND	47	SERIAL DATA IN	 5∨
23	MIC2 COLD	–20 dBs/10 kΩ BALANCED			47 F
24	MIC2 HOT	-20 dbs/10 ks2 balanced			
25	SAVE CTL IN	ST-BY: +5 V			
		SAVE: OPEN	48	SERIAL DATA OUT	→ (48)
		Zi ≥ 10 kΩ			
26	RET. SW IN	RETURN: LOW			
		NORMAL: Hi-Z			7) 7
27	VTR START/STOP	START: +5 V	49	REC TALLY OUT	574
		STOP: 0 V]		5V
		Zi ≥ 10 kΩ			2.5V ALARM REC
28		NC			1 5V — —
29	R-Y IN	0.7 Vp-p (U ver.)			(1 or 4 Hz)
		0.525 Vp-p (E ver.)	50	WARNING SIG. OUT	
		Zi: 1 kΩ	İ	(BATTERY)	
30		NC]		
31		NC			NEAR END (1 Hz) END
32	RET. AUDIO OUT	-6 dBs/1kΩ UNBLANCED			9V —
33	GND	GND			
34		NC			
35		NC	7		(50)

Table 1.12 Specification for the 50 pin connector

SECTION 2 MECHANISM ADJUSTMENTS

2.1 MECHANISM ADJUSTMENT FLOWCHART



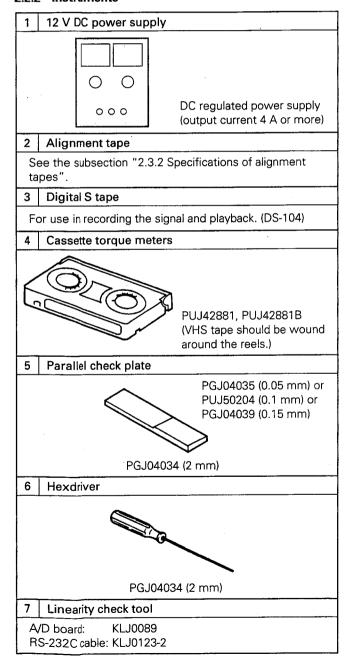


2.2 REQUIRED MEASURING INSTRUMENTS FOR ADJUSTMENTS, STANDARD SETUP

2.2.1 Required measuring instruments for adjustments

Instrument	Condition
Oscilloscope	Capable of measuring 100 MHz or higher bands and calibrated.
Digital voltmeter	Input impedance 10 $M\Omega$ or more, and calibrated.
Audio tester	Must be calibrated.

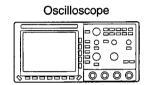
2.2.2 Instruments

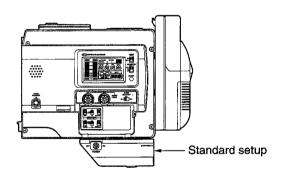


2.2.3 General tools for mechanism adjustments

- Nut driver (5.5 mm)
- Tapered nut driver (PUJ50637)
- Hex. wrenches (0.9 mm, 1.27 mm, 2 mm)
- Phillips screwdrivers (4 mm, 2.6 mm, 2 mm)
- Flat-blade screwdriver
- Precision screwdriver
- Torque driver
- VHS tape (T120)
- DIGITAL S tape (DS104)

2.2.4 Standard setup Oscilloscope





2.2.5 Procedure to activate DIAG mode

- 1) While holding the ADVANCE button depressed, press and hold the MENU button for more than 3 seconds.
- 2) Press the GROUP button to select group 7 (from "58: " to "85: ").
- 3) Press the ITEM button to select the specified menu.
- 4) Press the SELECT button to execute the item. See sub section "1.3.2" for details.

2.3 BEFORE PROCEEDING TO ADJUSTMENT

2.3.1 Precautions

- 1) Before using a soldering iron, be sure to unplug the power cord from the power supply outlet.
- 2) When removing a connector, do not pull the wire section but grasp the plug section.
- 3) In cases of trouble, do not turn adjustment points and potentiometers before the defective point is identified.
- 4) When inserting a cassette tape, do not place the unit on its side or rear or upside down. Otherwise the cassette housing may be damaged.
- 5) Remove the top and side covers before making any mechanism adjustments.
- 6) Each roller should be replaced independently of the replacement operations for other rollers, and the transport system should be checked every time after a roller has been replaced.
- 7) Before electrical adjustments, be sure to turn on the unit and leave it on for at least 10 minutes or more.
- 8) The oscilloscope probe should be a 10:1 probe unless otherwise specified.

2.3.2 Specifications of alignment tape

MHP: for U-ver.

(Stairstep segment of MH1 tape is substitutable)

Video Signal	Audio Signal	Time (min.)	Applications
VHP (SP mode) stairstep	7 kHz (guard band recording)	20	A/C head azimuth adjustment.

MHPE: for E-ver.

(Stairstep segment of MH2 tape is substitutable)

Video Signal	Audio Signal	Time (min.)	Applications
VHS (SP mode) Stairstep	6 kHz	20	For adjustment of A/C head azimuth.

MBA-3: for U-ver.

(Tape that MHA-3 is changed just in the name.)

Video Signal	Audio Signal	Time (min.)	Applications
<u>-</u>	1 kHz (guard band recording)	-	A/C head height adjustment

MBAE-3; for E-ver.

(Tape that MHAE-3 is changed just in the name.)

(
Video Signal	Audio Signal	Time (min.)	Applications		
_	1 kHz (guard band recording)	_	For adjustment of A/C head azimuth.		

MSHP

Video Signal	Audio Signal	Time (min.)	Applications
Sine wave	_	50	Interchange ability adjustment

MSHP-X

Video Signal	Audio Signal	Time (min.)	Applications
Color bar (1 track per frame does not contain video.)	-	50	X-value adjustment, tracking preset adjustment.

2.4 MAINTENANCE AND INSPECTION OF MAIN PARTS

Periodical inspection and maintenance are the prerequisite for ensuring the original performance and reliability of the set. Table 2-4-1 (check and maintenance table for major parts) is compiled as a standard of main parts replacement on the assumption that the set is used in ordinary conditions. Therefore, replacing periods indicated in the table greatly differ depending on actual use and environmental conditions. Moreover, if the set undergoes inspection and maintenance irregularly or is left without inspection and maintenance, it not only shortens the

replacement period considerably but also affects other parts and the whole function.

Rubber parts require careful attention because they are apt to deform or deteriorate if the set is hardly used or left in bad environment.

The life time of the drum depends on use and environmental conditions.

2.4.1 Main Parts Layout

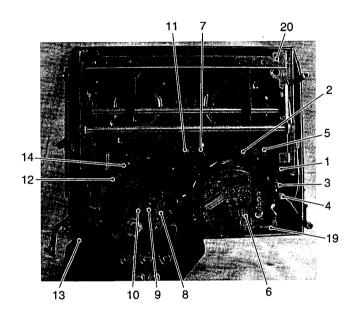


Fig. 2-4-1 Top Side of Deck

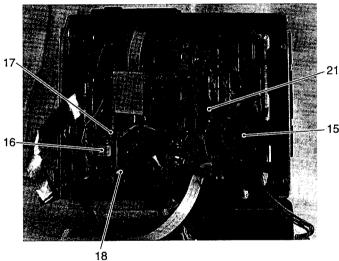


Fig. 2-4-2 Back Side of Deck

2.4.2 Check and maintenance table

Table 2-4-1 Check and maintenance table for major parts

★: Cleaning

O: Replacing if required Cleaning if it is not replaced : Replacing

Category	No.	Part Name	Reference section of this manual	Stand (Oper (S A	dard se period ating H ee Not B	ervice l Hours) te)	Symbol No. of part and page which is appears in	Remark
	1	1st guide roller	2.7.2	*		•	No. 91, p. 5-8	
	2	Supply tension arm assembly	2.7.4				No. 119, p. 5-8	Including supply tension band
	3	Full erase head guide roller	2.7.3				No. 108, p. 5-8	
	4	Full erase head assembly	2.7.17	0		•	No. 111, P. 5-8	Including tape scraper
ج	5	Supply pole base assembly	2.7.5	*		•	No. 74, p. 5-8	
Tape transport system	6	Drum assembly	2.5.2	•			No. 36, p. 5-5	
ort s	7	Take-up guide roller	2.7.11	*		•	No. 68A, p. 5-8	
dsue	8	A/C head assembly	2.7.7	0		•	No. 102, p. 5-8	
oe tra	9	A/D head guide roller	2.7.8	*		•	No. 92, p. 5-8	
Тар	10	Middle guide roller	2.7.9	*		•	No. 110, p. 5-8	
	11	Draw pole base assembly	2.7.11	*		•	No. 70, p. 5-8	
	12	Capstan shaft	2.4.5	*			_	
ļ	13	Pinch roller assembly	2.7.6	*	•		No. 99, p. 5-8	
	14	Take-up tension arm assembly	2.7.10	*		•	No. 84, p. 5-8	Including Take-up tension band
	15	Capstan motor assembly	2.7.13	0	0	•	No. 27, p. 5-7	
	16	Reel motor assembly	2.7.14				No. 43, p. 5-7	Including belt
	17	Mode motor assembly	2.7.15				No. 21, p. 5-7	
	18	Belt	2.6.3	*	•	•	No. 21E, p. 5-7	
	19	Timing belt	2.7.12	*			No. 25, p. 5-7	
tem	20	Supply rubber tire	2.7.18				No. 58A, p. 5-6	
sys	21	Take-up rubber tire	2.7.18				No. 59A, p. 5-6	
Drive system	22	Idler arm assembly	2.6.4				No. 64, p. 5-8	
_	23	Supply tension band	2.6.5	*	•		No. 82, p. 5-8	
	24	Take-up tension band	2.6.6				No. 84D, p. 5-8	
	25	Sub-brake	2.6.7				No. 55, p. 5-8	
	26	Supply reel disk assembly	2.4.6	☆	کہ	ہے۔	_	Oiling to the shaft.
	27	Take-up reel disk assembly	2.4.6		☆	☆	_	Oiling to the shaft.
	28	Head cleaner	2.5.3	•	•	•	No. 116, p. 5-8	Excluded from drum assembly
"	29	Cassette housing assembly	2.6.2	*			M 5 , p. 5-9	
Others	30	Control cam	2.7.16		•		No. 9, p. 5-7	
	31	Roller	2.7.16				No. 8, p. 5-7	
	32	Pinch cam arm assembly	2.7.16				No. 14, p. 5-7	

Note: For fixing an aim to service, follow the indication of the DRUM HOUR METER appearing on the MENU switch seting screen in general.

A: every 500 hours, B: every 1000 hours, C: every 2000 hours

2.4.3 Cleaning

It is desirable to carry out periodical cleaning of the tape transport system, however, it is almost impossible to do it during actual use of the set. Therefore, clean the tape transport system, without fail whenever the set is brought in for service. For cleaning, use fine woven cotton cloth moistened with ethyl alcohol.

 If the head is dirty or dusty, playback picture may consist of a great deal of minute square blocks because of malfunction of error correction, or the set fails in playing back picture for the worst.

For cleaning the video head, turn the middle drum in the normal direction (the same as VHS model) while pressing quality paper lightly onto the surface of the middle drum.

Note: -

Since the video head is weak against vertical force (applied in up-down direction), it may easily be damaged if cleaning paper is moved.

2. Dirty and dusty tape guide not only increases dirt on the video head but also damages tape.

If dust and foreign particles have collected on and around guide rollers, it may possibly cause abnormal roller rotation and may result in deterioration in picture quality as mentioned above.

2.4.4 Oiling and greasing

If oil or grease looks worn or deteriorated, wipe it off and then apply new oil or greases to the specified place.

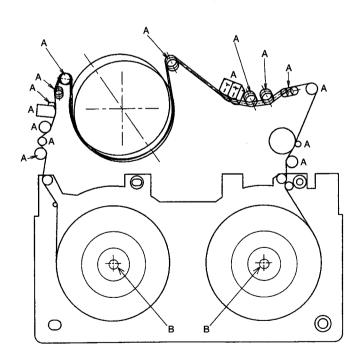
1. Table 2-4-2 shows oil and grease used in this set.

Table 2-4-2 Oil an grease used in this set

Classificcation	Name	Part No.		
Oil*	Cosmo Hydro HV56	COSMO-HV56		
Grease	Moriton Grease (Black)	MOS2-C		

^{*}General spindle oil (low viscosity) is substitutable.

- 2. Control cam needs greasing every 2000 hours of operation.
- 3. Other parts need greasing every 2000 hours of operation or at the time of replacement.
- 4. For parts that need oiling or greasing, refer to the exploded view of SECTION 5 EXPLODED VIEWS AND PARTS LIST.



A : Cleaning

B: Oiling

Fig. 2-4-3

2.5 PERIODICAL MAINTENANCE AT EVERY 500 HOURS

2.5.1 500-hour periodical maintenance flowchart

Fig. 2-5-1 shows the procedure of the periodical maintenance operation to be performed after every 500 hours of operation.

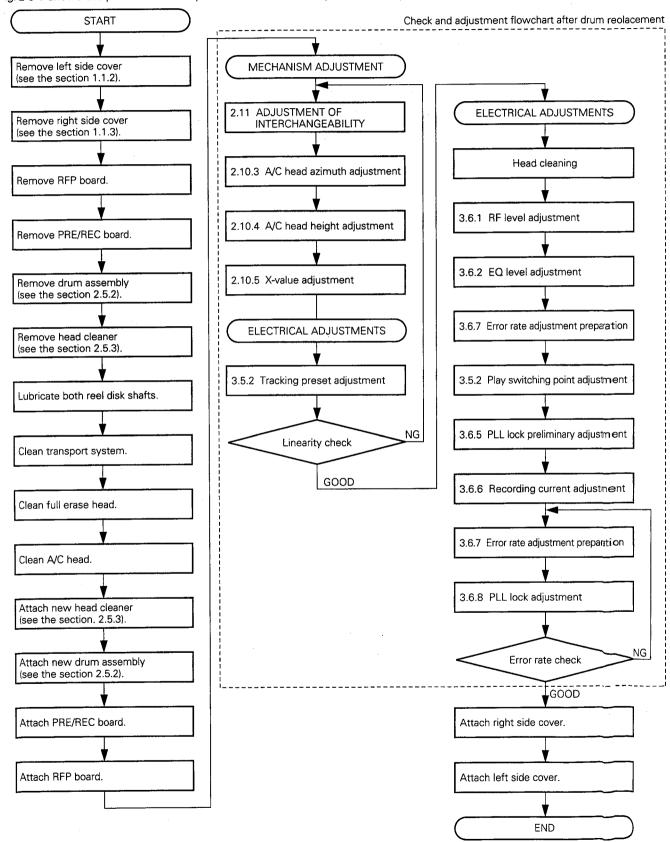


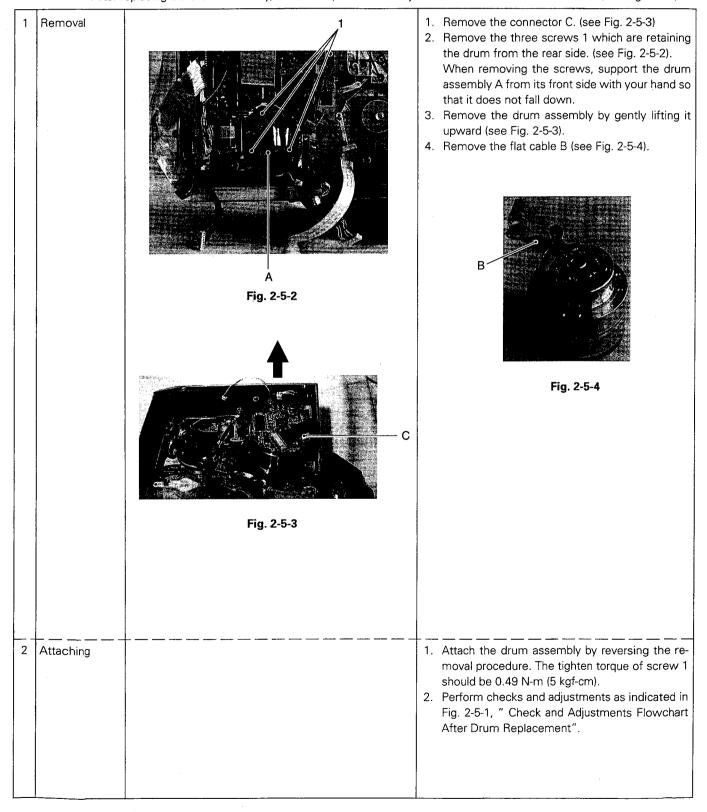
Fig. 2-5-1 500-Hour Periodical Maintenance Flowchart

No.	ltem	Reference Diagrams	Procedure

2.5.2 Drum assembly replacement

[CAUTION] • When replacing the drum assembly, take enough care to avoid leaving fingerprints on the drum assembly, by wearing gloves, etc.

• After replacing the drum assembly, be sure to perform the adjustments as shown in the flowchart (see Fig. 2-5-1).



	14	Poforonco Diagrams	Procedure
No.	Item	Reference Diagrams	110000010
1			
L			

2.5.3 Head cleaner replacement

1	Removal		1. Pull out the cleaner A (see Fig. 2-5-6).
		A	
		Fig. 2-5-5	
2	Attaching	.	1. Insert a new cleaner.

2.6 PERIODICAL MAINTENANCE AT EVERY 1000 HOURS

2.6.1 1000-hour periodical maintenance flowchart

Fig. 2-6-1 shows the procedure of the periodical maintenance operation to be performed after every 1000 hours of operation.

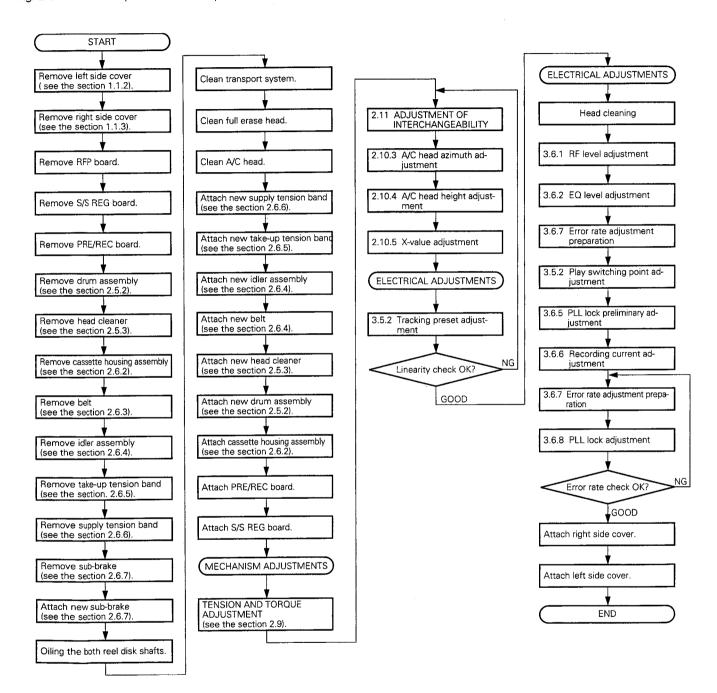
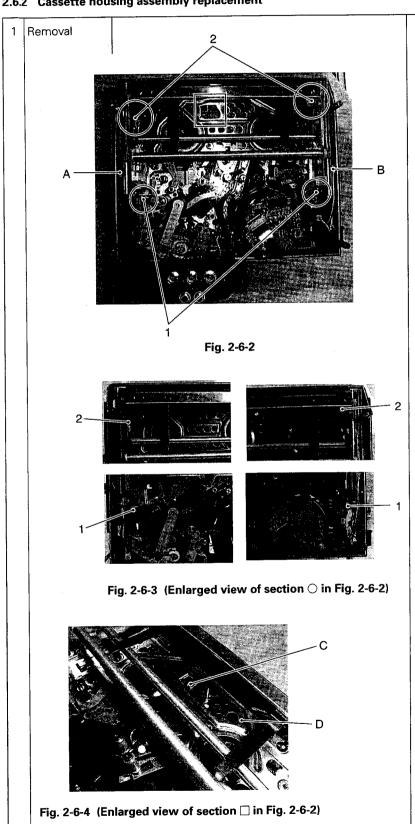


Fig. 2-6-1 1000-Hour Periodical Maintenance Flowchart

N	o. Item	Reference Diagrams	Procedure
- 1	i		l

2.6.2 Cassette housing assembly replacement

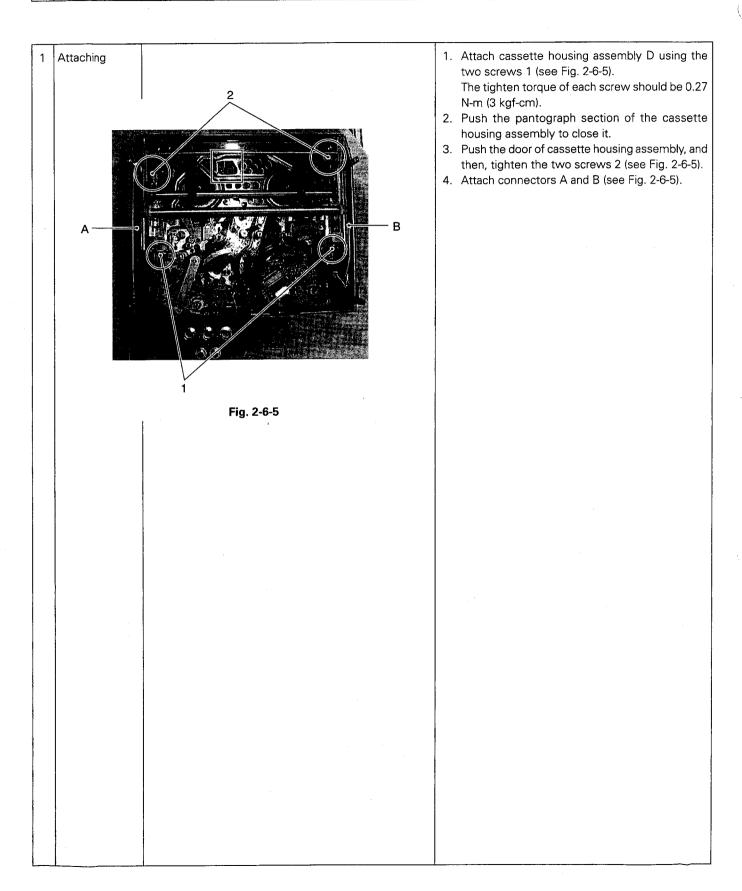


1. Remove the left side cover (see the section. 1.1.2).

- 2. Remove connectors A and B (see Fig. 2-6-2).
- 3. Remove the two screws 1 and loosen the two screws 2 (the screws 2 cannot be removed because they are held by a spring) (see Fig. 2-6-3). The right screw of screws 2 is located behind the door of the cassette housing assembly, so it should be loosened after pushing back the door.

- 4. Remove claw C of the lock unit. This unlocks the cassette housing and opens the cassette housing assembly D (see Fig. 2-6-4).
- 5. Remove cassette housing assembly D.

No	. Item	Reference Diagrams	Procedure

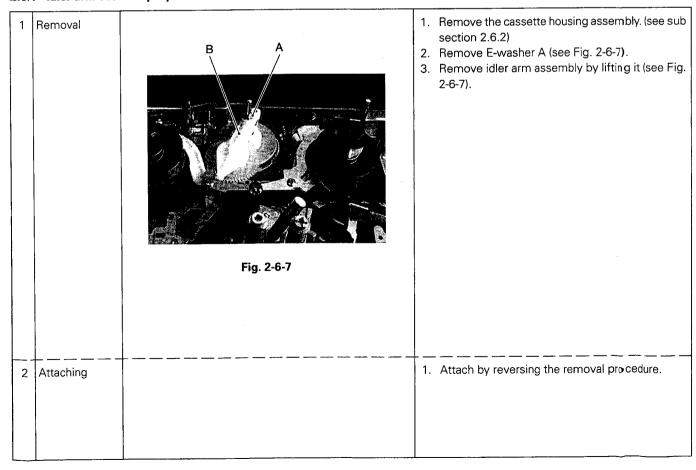


No	. Item	Reference Diagrams	Procedure
1	1		

2.6.3 Belt replacement

_	Removal	A	Remove the S/S REG and the PRE/REC boards. (see sub section 1.2.6)
		Fig. 2-6-6	2. Remove belt A (see Fig. 2-6-6).
2	Attaching		Attach by reversing the removal procedure.

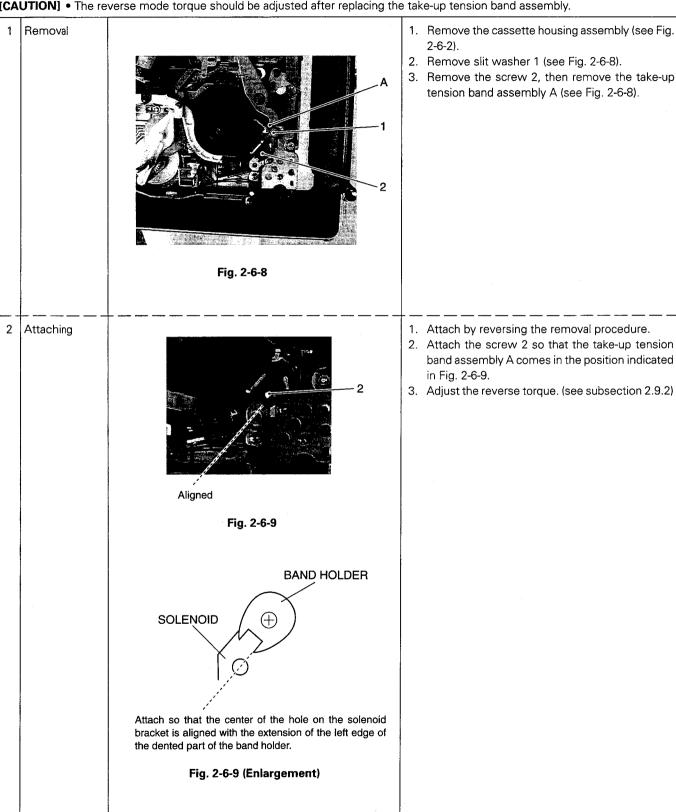
2.6.4 Idler arm assembly replacement



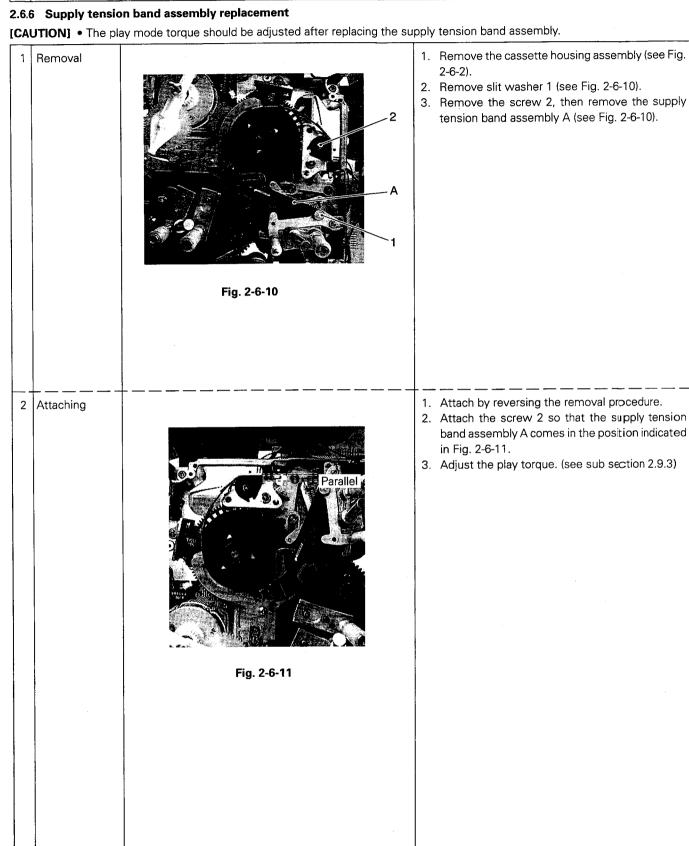
No.	. Item	Reference Diagrams	Procedure
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2.6.5 Take-up tension band assembly replacement

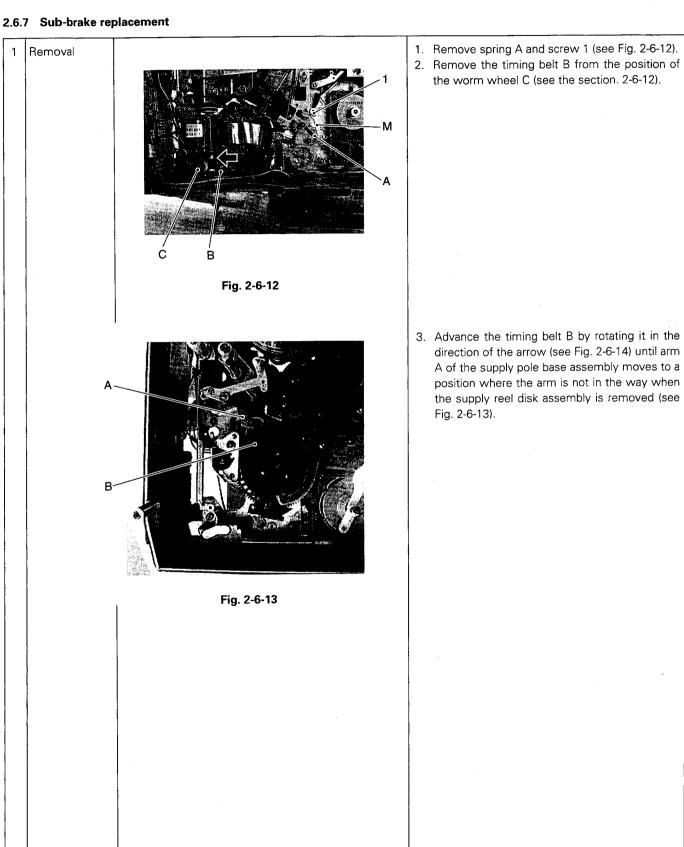
[CAUTION] • The reverse mode torque should be adjusted after replacing the take-up tension band assembly.



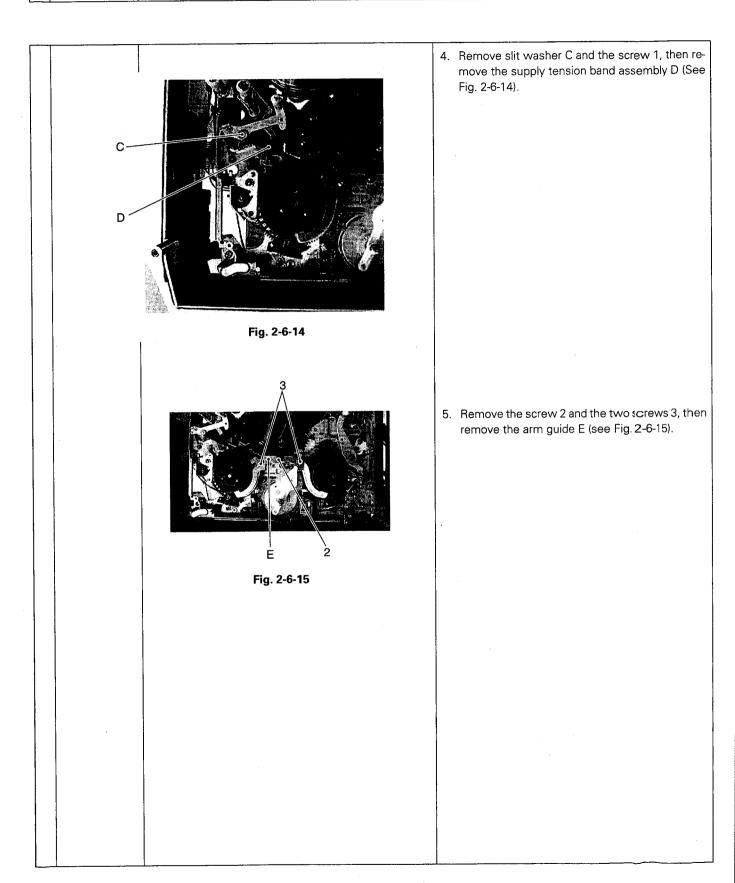
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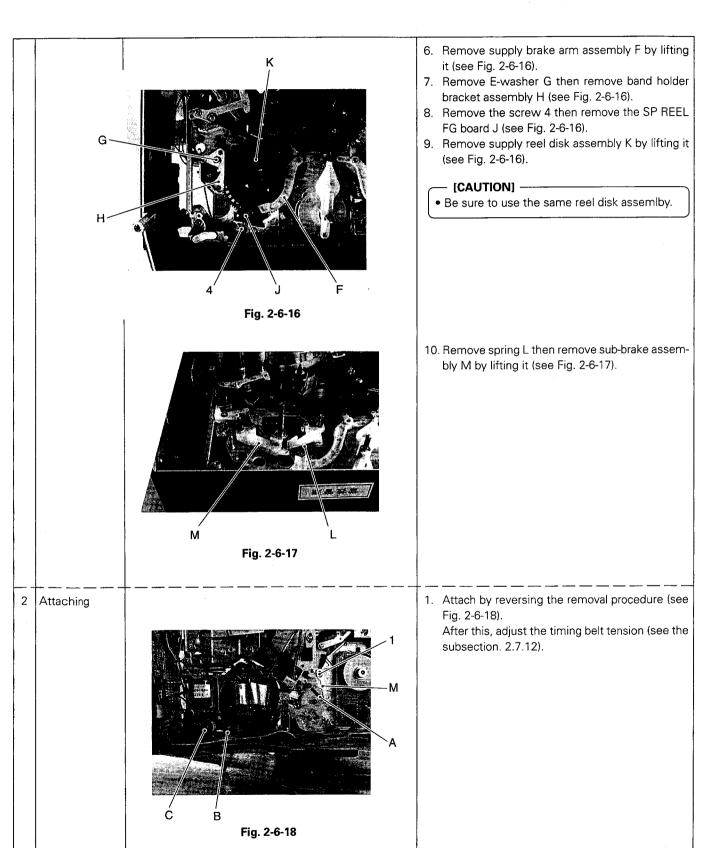
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	No.	Item	Reference Diagrams	Procedure
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2.7 PERIODICAL MAINTENANCE AT EVERY 2000 HOURS

2.7.1 2000-hour periodical maintenance flowchart

Fig. 2-7-1 shows the procedure of the periodical maintenance operation to be performed after every 2000 hours of operation.

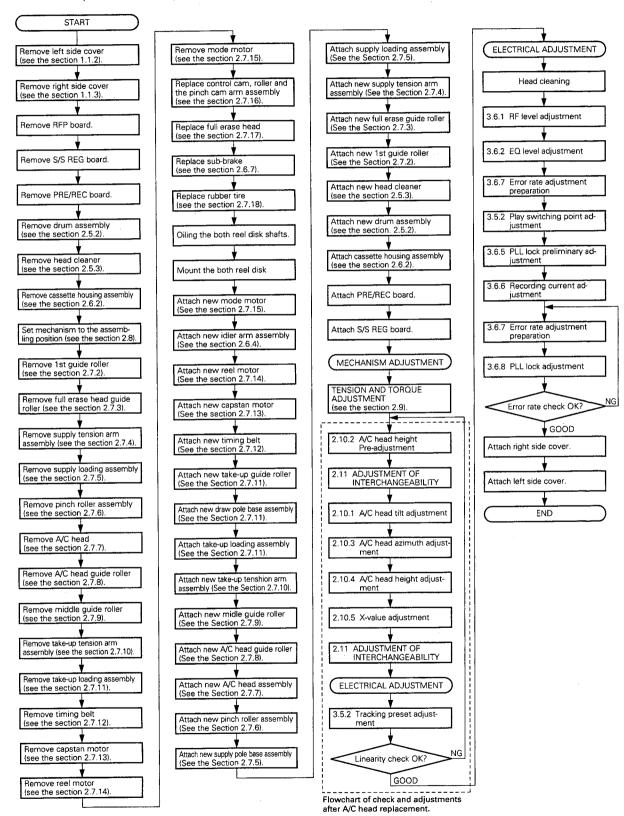


Fig. 2-7-1 2000-Hour Periodical Maintenance Flowchart

	No.	Item	Reference Diagrams	Procedure
1				

2.7.2 1st guide roller replacement

1	Removal	Fig. 2-7-2	1. Remove slit washer A (see Fig. 2-7-2). 2. Remove 1st guide roller B (see Fig. 2-7-2).
2	Attaching		Attach by reversing the removal procedure.

2.7.3 Full erase head guide roller replacement

[CAUTION] • Check the tape transport system after replacing the full erase head guide roller.

1	Removal	Fig. 2-7-3	 Loosen the set screw 1 (which does not have to be removed) (see Fig. 2-7-3). Remove the full erase head guide roller A by rotating it counterclockwise (see Fig. 2-7-3).
2	Attaching	A B Q 1	 Attach the full erase head guide roller A by inserting and rotating it clockwise. Attach it so that rubber ring B comes in light contact with the surface (see Fig. 2-7-4). Check the tape transport system. (see subsection 2.11) Tighten the set screws 1 in order to fix the full erase head guide roller A.

N	o. Item	Reference Diagrams	Procedure
- 1	l		

2.7.4 Supply tension arm assembly replacement

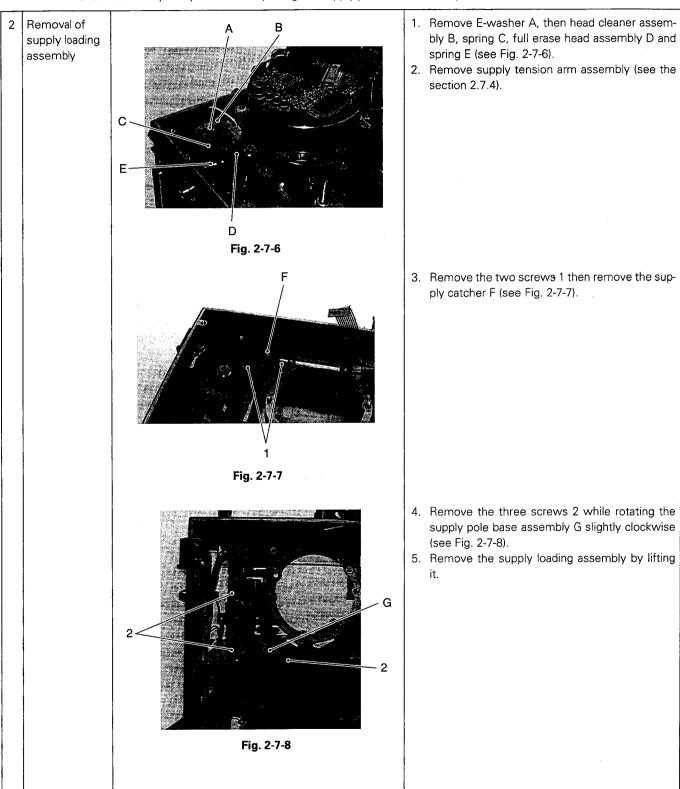
1 Removal	B D A Fig. 2-7-5	 Remove screw A (see Fig. 2-7-5). Remove the E-washer B then remove spring C (see Fig. 2-7-5). Remove the supply tension arm assembly D by pulling it upward.
2 Attaching		1. Attach by reversing the removal procedure. 2. Attach the screw A by referring to Section 2.6.6 3. Adjust the play torque. (see subsection 2.9.3)

V	o. Item	Reference Diagrams	Procedure
	-		

2.7.5 Supply pole base assembly and supply loading gear replacement

[CAUTION] • Before replacement, set the mechanism to the position indicated by Section "2.8 MECHANISM ASSEMBLING POSITION".

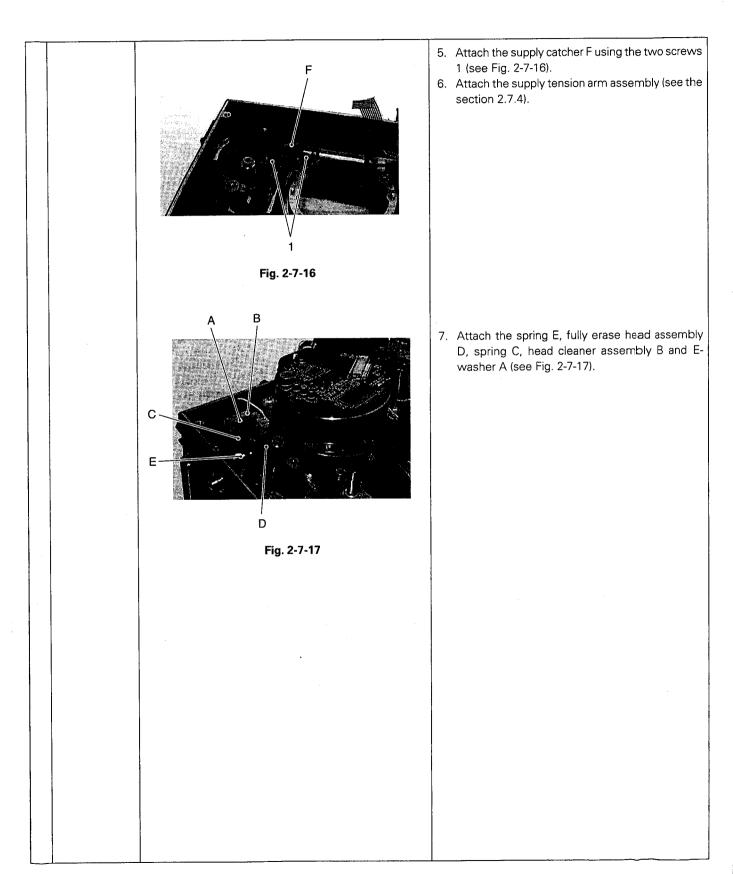
• Check the transport system after replacing the supply pole base assembly.



No.	ltem	Reference Diagrams	Procedure
2	Removal of supply pole base assembly	G Fig. 2-7-9	6. Remove the screw 3; this lets the supply pobase assembly come out (see Fig. 2-7-9).
3	Removal of the supply loading gear	J Fig. 2-7-10	7. Remove the spring H; this lets the supply loa ing gear J come out (see Fig. 2-7-10).
4	Attaching supply loading gear	H—————————————————————————————————————	1. Fit the supply loading gear J onto the shaft are attach spring H (attach it so that the longer how of the spring comes on the gear side, the short hook comes on the arm side, and the opened side of each hook faces the inner side).

5 Attaching the supply pole base assembly 6 Attaching the supply loading assembly 7 Attaching the supply loading assembly 8 Attaching the supply loading assembly 8 Attaching the supply loading assembly 8 Attaching the supply loading assembly	ng torque should be 0.14
6 Attaching the supply loading assembly K 3. Attach the supply loading port K on the deck so the the hole on the gear (see Attach it so that the gears)	
Fig. 2-7-13 4. Attach the three screws 2	hat the support fits into be Fig. 2-7-13). It is are meshed as shown as white meshed as shown 2 while rotating the sup-
Fig. 2-7-14	S slightly clockwise (see
Fig. 2-7-	-15

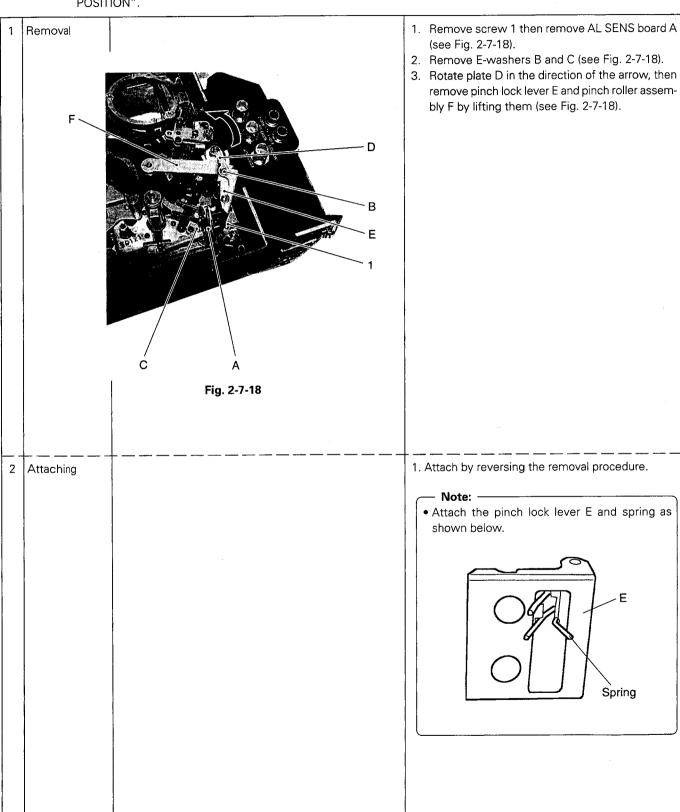
N	o. Item	Reference Diagrams	Procedure
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No.	Item	Reference Diagrams	Procedure
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2.7.6 Pinch roller assembly

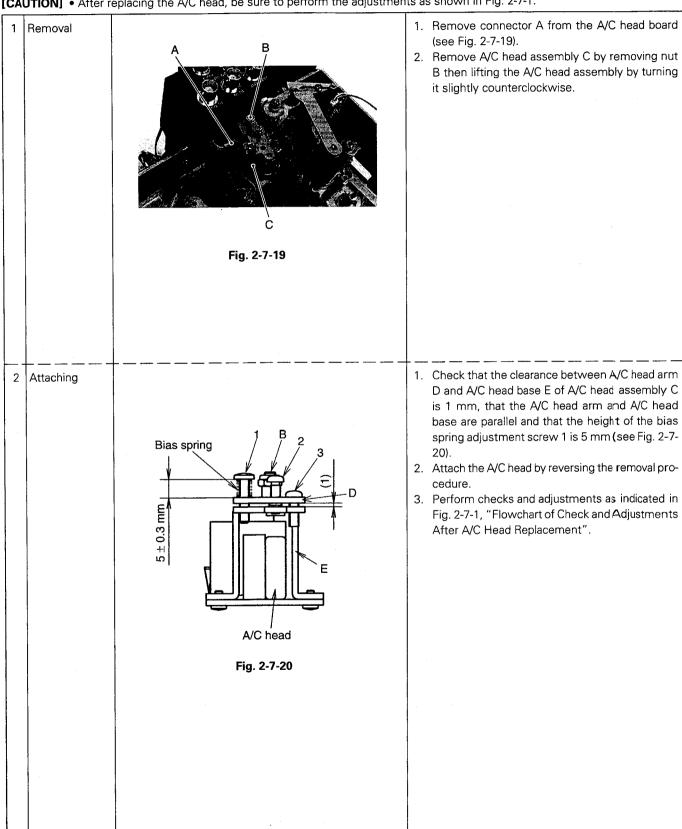
[CAUTION] • Before replacement, set the mechanism to the position indicated in subsection "2.8 MECHANISM ASSEMBLING POSITION".



No.	ltem	Reference Diagrams	Procedure

2.7.7 A/C head replacement

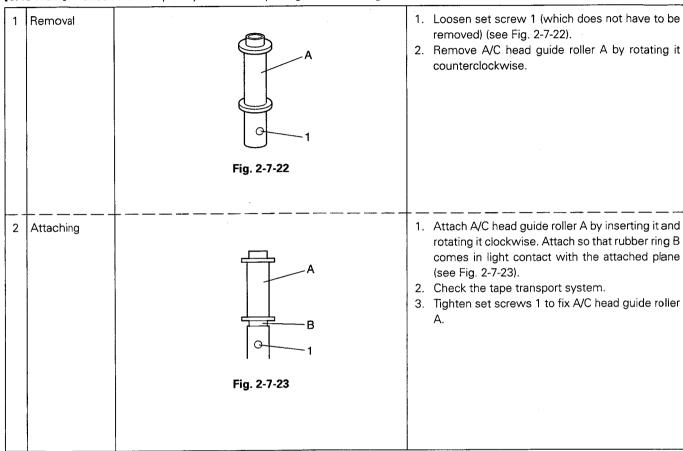
[CAUTION] • After replacing the A/C head, be sure to perform the adjustments as shown in Fig. 2-7-1.



No.	ltem	Reference Diagrams	Procedure
	1		

2.7.8 A/C head guide roller replacement

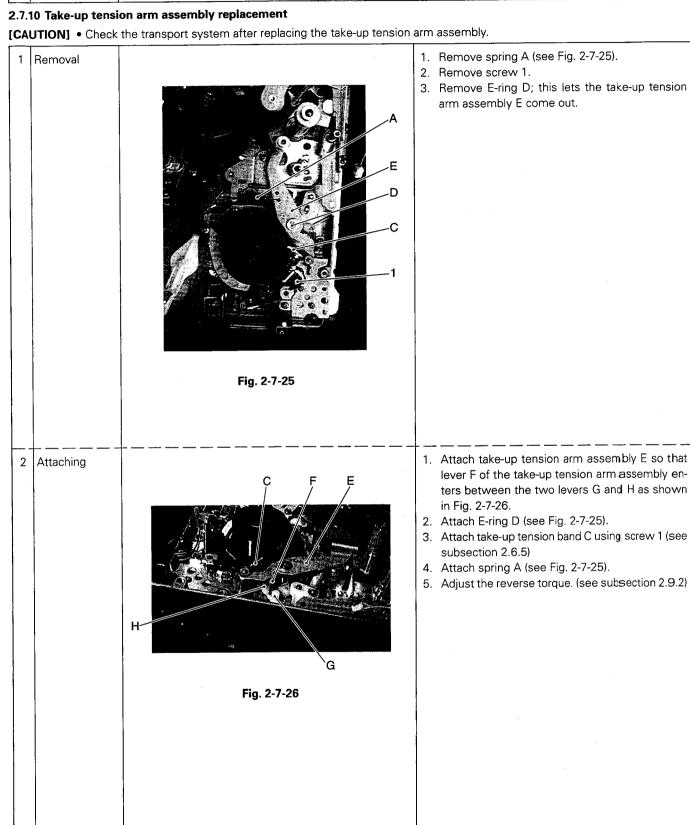
[CAUTION] • Check the transport system after replacing the A/C head guide roller.



2.7.9 Middle guide roller replacement

1	Removal	Fig. 2-7-24	1. Remove slit washer A (see Fig. 2-7-24). 2. Remove middle guide roller B (see Fig. 2-7-24).
2	Attaching		Attach by reversing the removal procedure.

No.	ltem	Reference Diagrams	Procedure
	T .		



	No.	Item	Reference Diagrams	Procedure
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2.7.11 Take-up guide roller, draw pole base assembly and take-up loading assembly replacement

[CAUTION] • Before replacement, set the mechanism to the position indicated by subsection "2.8 MECHANISM ASSEMBLING POSITION".

• Check the transport system after replacing each assembly.

Removal of take-up loading assembly

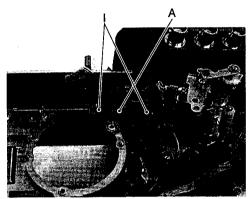
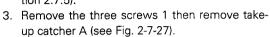


Fig. 2-7-27



2.7.6).

2. Remove supply loading assembly (see the section 2.7.5).



1. Remove pinch roller assembly (see the section

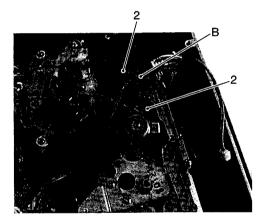
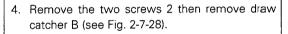


Fig. 2-7-28



- 5. Remove spring D from take-up tension arm assembly (see Fig. 2-7-29).
- 6. Remove the six screws 3 (see Fig. 2-7-30).
- 7. Remove the two screws 4 which retain draw loading arm assembly; this lets the take-up loading assembly F come out (see Fig. 2-7-30).

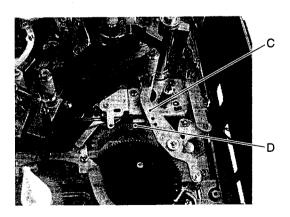


Fig. 2-7-29

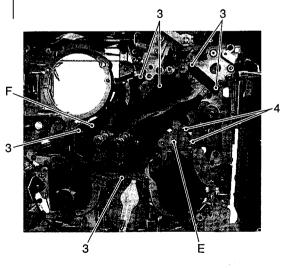


Fig. 2-7-30

No.	Item	Reference Diagrams	Procedure
2	Removal of take-up guide roller	G H Fig. 2-7-31	Loosen screw G and remove the take-up guide roller H by rotating it counterclockwise (see Fig. 2-7-31).
3	Removal of draw pole base assembly	Fig. 2-7-32	Remove E-washer J then remove draw pole base assembly K by sliding it in the direction of the arrow (see Fig. 2-7-32).
4	Removal of take-up loading gear	N M Fig. 2-7-33	3. Remove springs L and M; this lets the take-up loading gear N come out (see Fig. 2-7-33).

No.	Item	Reference Diagrams	Procedure
5	Removal of draw loading gear	Fig. 2-7-34	 Remove spring P (see Fig. 2-7-34). Remove slit washer Q; this makes it possible to remove draw loading gear R.
6	Attaching draw loading gear	R Fig. 2-7-35	1. Fit draw loading gear R onto the shaft and retain it by using the slit washer Q (see Fig. 2-7-35). 1. Fit draw loading gear R onto the shaft and retain it by using the slit washer Q (see Fig. 2-7-35).
	(a) Top vie	Remove clearance between the spring and the sheet metal by twisting the spring in the direction of the arrow. (b) Side view Fig. 2-7-36	2. Attach spring P (so that the longer hook of the spring comes on the gear side, the shorter hook comes on the arm side, and the opened side of each hook faces the inner side) (see Fig. 2-7-36).

No.	Item	Reference Diagrams	Procedure
7	Attaching take-up loading gear	N A	Fit take-up loading gear N onto the shaft (see Fig. 2-7-35).
		Fig. 2-7-37	
	(a)	Top view (b) Side view	2. Attach springs L and M (so that the longer hoo of each spring comes on the gear side, the shorte hook comes on the arm side, and the opene side of each hook faces the inner side) (see Fig 2-7-38).
		Fig. 2-7-38	
8	Attaching draw pole base assembly	STK	1. Position the draw pole base assembly K on the take-up guide rail S, thread the shaft of the draw loading arm assembly T through from the botom side, and secure it by using the E-washer (see Fig. 2-5-39).
l			

No. Item	Reference Diagrams	Procedure
9 Attaching the take-up guide roller	G H Fig. 2-7-40-A	2. Attach take-up guide roller H by inserting it and rotating it clockwise. Attach so that rubber ring L comes in light contact with the attached plane (see Fig. 2-7-40-B).
10 Attaching the take-up loading assembly	Fig. 2-7-42	1. Attach the take-up loading gear N onto the support V on the deck so that the support fits into the hole in the gear (see Fig. 2-7-41). Attach so that the gears are meshed as shown in Fig. 2-7-42.

No. Item Reference Diagrams Procedure	
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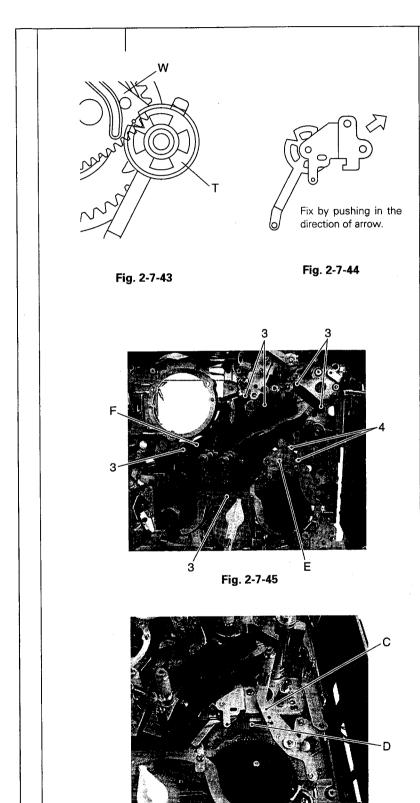


Fig. 2-7-46

2. Fix the draw loading arm assembly by using the two screws 4 so that the notch on the draw loading arm T faces towards the hole on the loading arm gear W (see Figs. 2-7-43 and 2-7-44).

3. Fix the take-up loading assembly F using the six screws 3 (see Fig. 2-7-45).

4. Attach spring D to the take-up tension arm assembly C (see Fig. 2-7-46).

١	No.	Item	Reference Diagrams	Procedure
1				

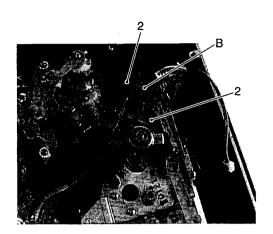


Fig. 2-7-47

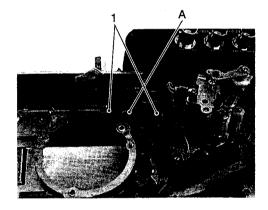
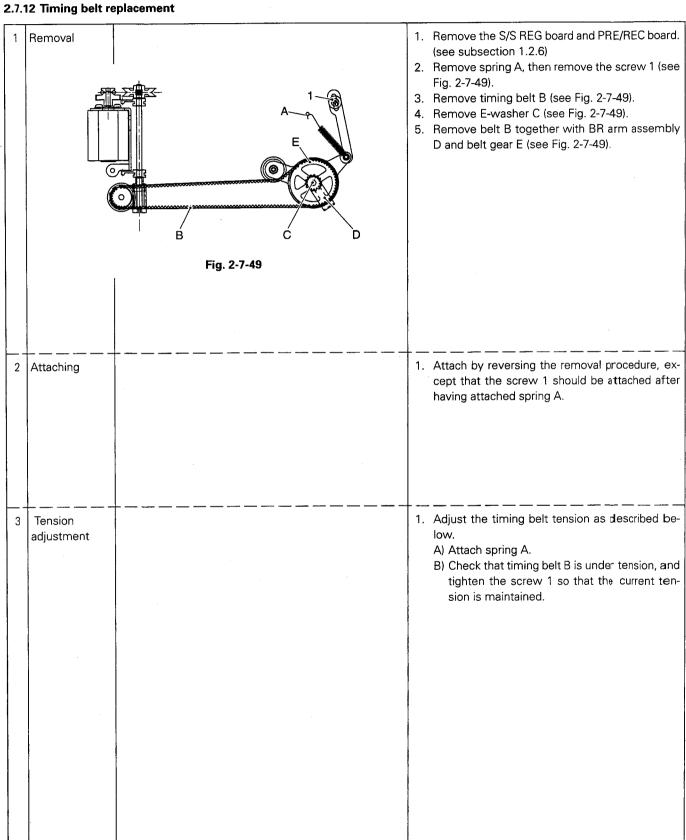


Fig. 2-7-48

5. Attach draw catcher B using the two screws 2 (see Fig. 2-7-47).

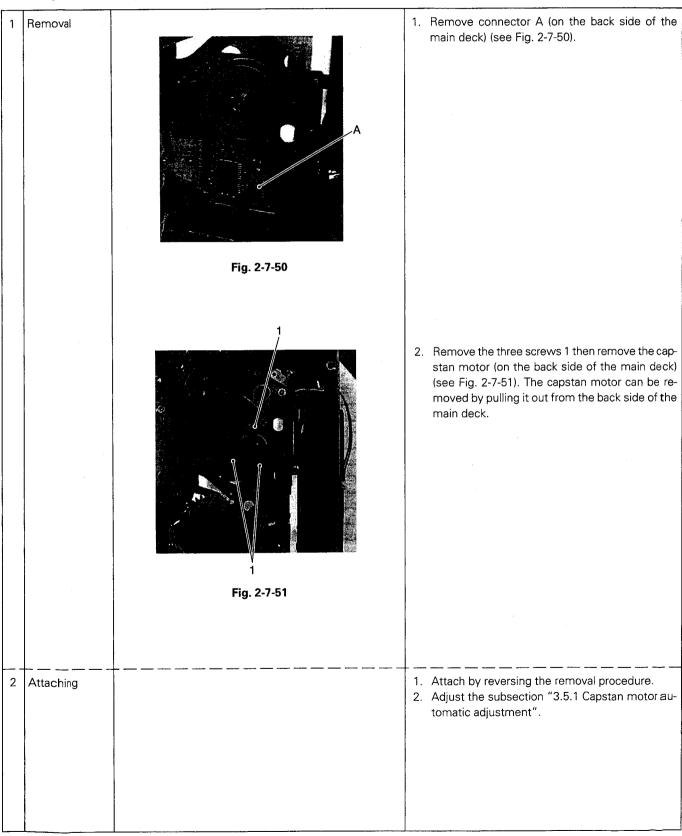
- 6. Attach take-up catcher A using the two screws 1 (see Fig. 2-7-48).
- 7. Attach the supply loading assembly (see the section 2.7.5).
- 8. Attach the pinch roller assembly (see the section 2.7.6).

No. Item Reference Diagrams Procedure

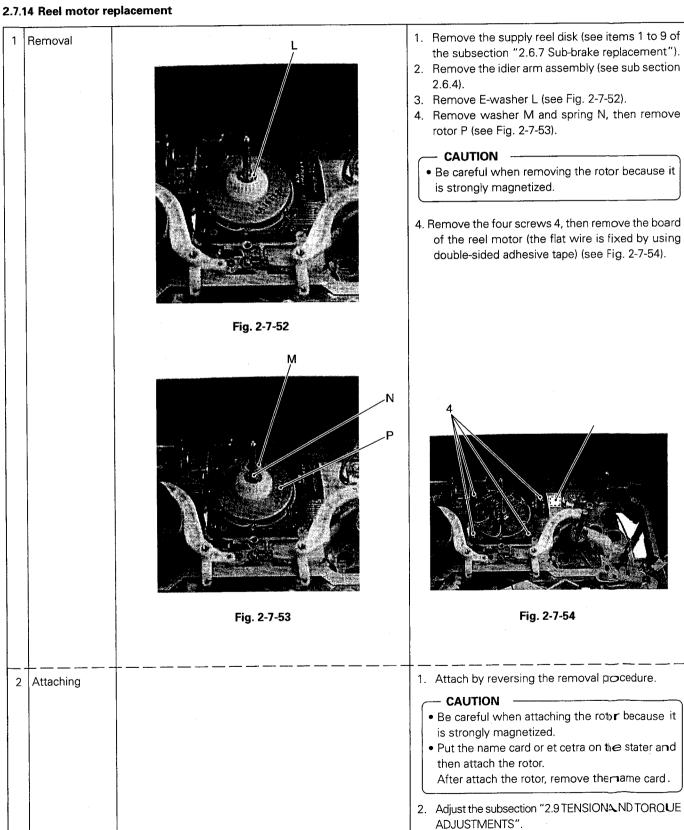


	No.	ltem	Reference Diagrams	Procedure _,
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2.7.13 Capstan motor replacement

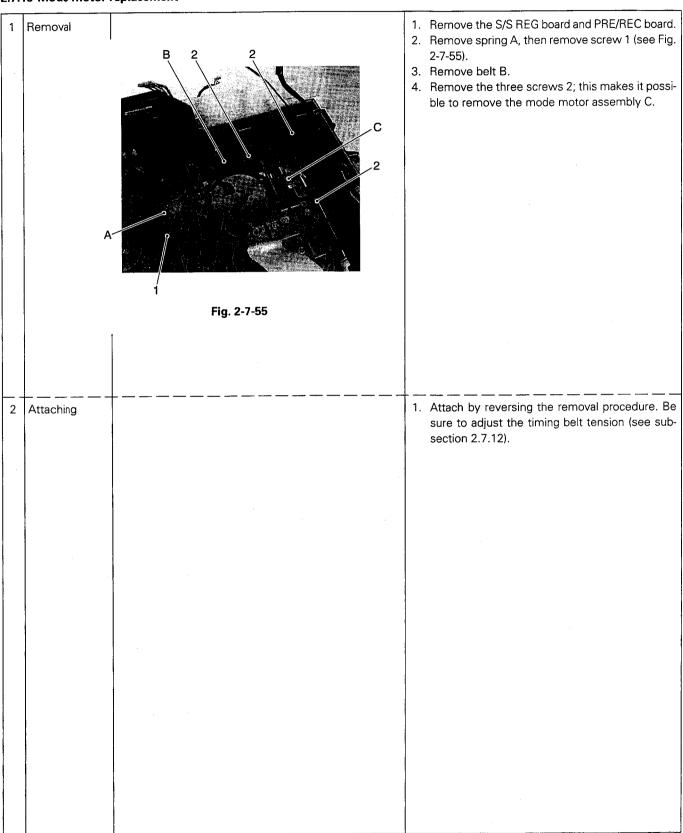


	No.	Item	Reference Diagrams	Procedure
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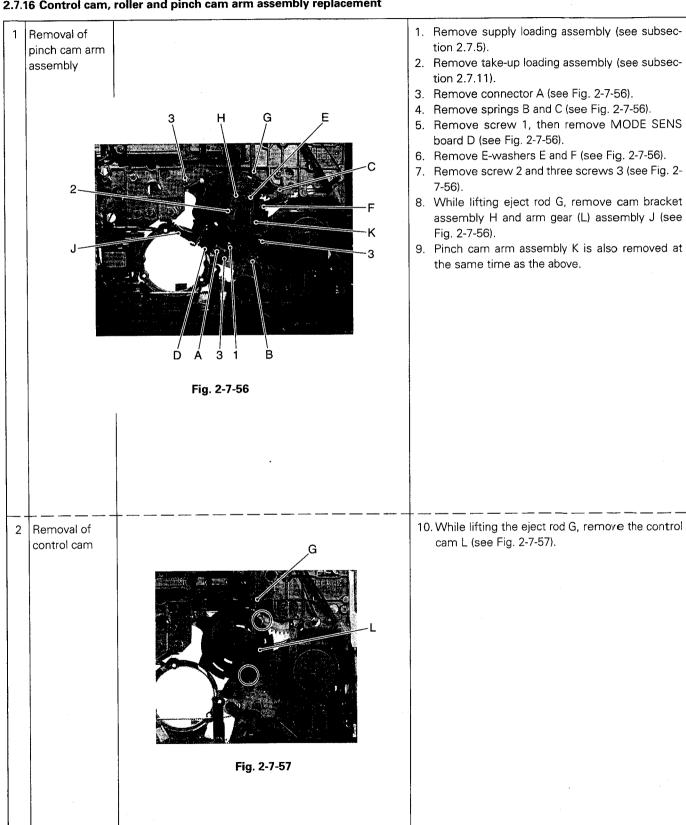
No.	ltem	Reference Diagrams	Procedure

2.7.15 Mode motor replacement



N	o. Item	Reference Diagrams	Procedure
			L

2.7.16 Control cam, roller and pinch cam arm assembly replacement



No.	Item	Reference Diagrams	Procedure				
-							
3	Removal of roller	Fig. 2-7-58	Remove E-washer M, this makes it possible to remove roller N (see Fig. 2-7-58).				
4	Attaching roller		Attach the roller N by reversing the removal procedure.				
5	Attaching the control cam	Fig. 2-7-59	2. Place arm gear (R) P in the assembling position (so that the hole Q of arm gear (R) P is aligned with the hole on the main deck) (see Fig. 2-7-59).				
and the second s		Align. Align. Fig. 2-7-60	3. Attach the control cam L in the assembling position (by aligning the small D marking on the cam idler gear S with the D marking on the control cam L) (see Fig. 2-7-60). Also insert stud R of the arm gear (R) into the groove on the control cam.				

No.	. Item	Reference Diagrams	Procedure
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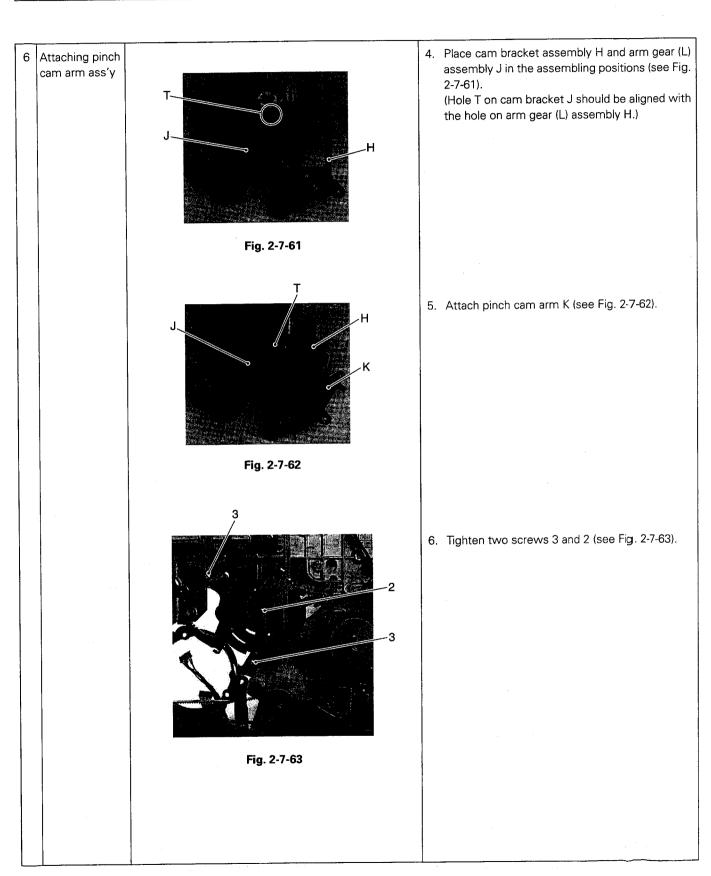




Fig. 2-7-64

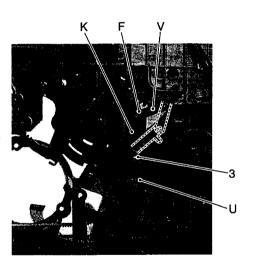


Fig. 2-7-65

7. Attach springs B and C (see Fig. 2-7-64).

- 8. Secure the adjust lever assembly U using the screw 3 (see Fig. 2-7-65).
- 9. Attach S-plate assembly V and pinch cam arm assembly K using E-washer F.

[CAUTION] -

- The pinch cam arm assembly must be attached as shown in the diagram. If it is attached as shown by the dotted lines in Fig. 2-7-65, it will be impossible to crimp the pinch roller.
- 10. Attach eject rod G using E-washer E (see Fig. 2-7-66)
- 11. Attach MODE SENS board D using the screw 1 (see Fig. 2-7-66).
- 12. Attach the connector A (see Fig. 2-7-66).
- 13. Attach the take-up loading assembly (seesub section 2.7.11).
- 14. Attach the supply loading assembly (see subsection 2.7.5)

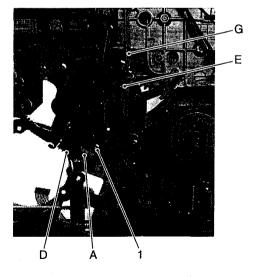
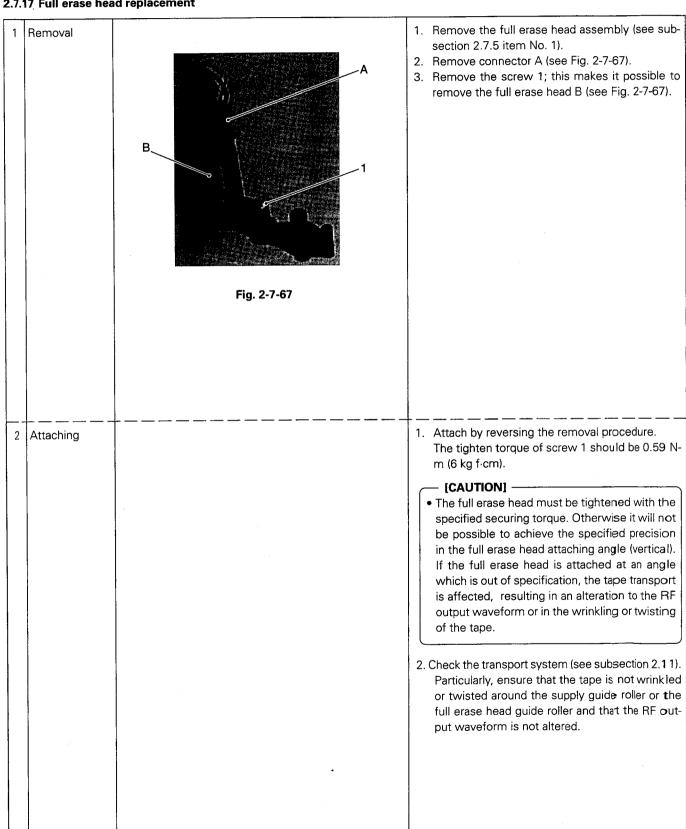


Fig. 2-7-66

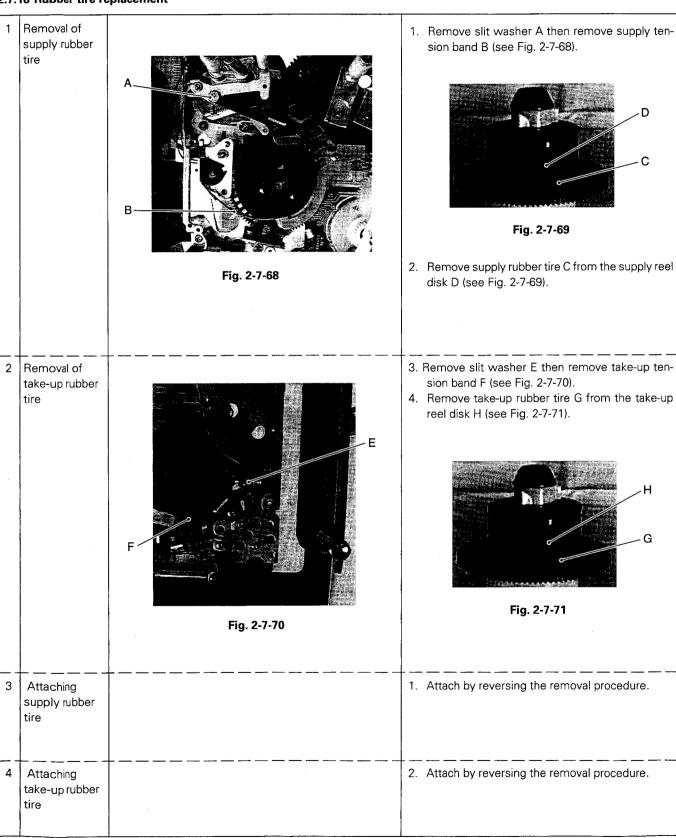
No.	ltem	Reference Diagrams	Procedure
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2.7.17 Full erase head replacement



No	. Item	Reference Diagrams	Procedure
		<u> </u>	

2.7.18 Rubber tire replacement



2.8 MECHANISM ASSEMBLING POSITION

Some mechanical parts of this unit do not function correctly unless they are attached with the specified positioning after replacement. The position of the mechanism that makes possible the attachment or checks of the positioning of these parts is referred to as the assembling position. The unit has been designed so that the markings on the gears are aligned correctly when the mechanism is in this position. The methods for placing the mechanism in the assembling position include "placing gears by turning them manually as shown in Fig. 2.8.1", and so on. This section describes the attaching positions of the gears when the mechanism is in the assembling position.

2.8.1 Pinch idle gear, connect gear, cam idle gear

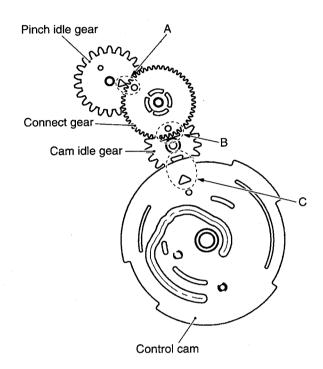


Fig. 2-8-1 Gear Positioning 1 (Bottom Panel Side)

- A: Align the \triangle marking on the pinch idle gear and \circ marking on the connect gear.
- B: Align the larger △ marking on the cam idle gear with the marking on the connect gear.
- C : Align the smaller \triangle marking on the cam idle gear with the \triangle marking on the control cam.

2.8.2 Arm gear (L), loading arms (L) (R), Geneva gear

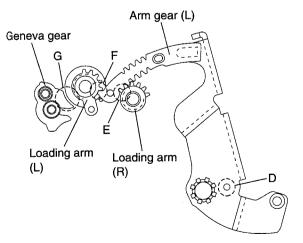
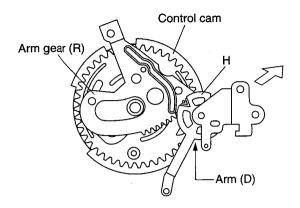


Fig. 2-8-2 Gear Positioning 2 (Perspective View from Above)

- D: The hole on the arm gear (L) should be aligned with the hole on the part below it when viewed from below.
- E: Align the gear end of the loading arm (R) with the end of the groove on the arm gear (L).
- F: Engage the gear end of the loading arm (L) with the end of the arm gear (L) as shown in the diagram.
- G: Align the R section of the Geneva gear with the loading arm (L).

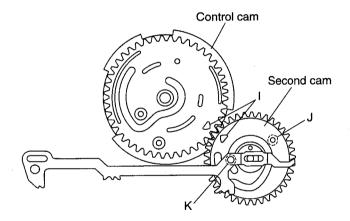
2.8.3 Arm gear (R), arm (D)



H: Align the hole on the arm gear (R) with the notch on the arm (D). The bracket of the arm (D) should be pushed in the direction of the arrow before securing the screw.

Fig. 2-8-3 Gear Positioning 3 (Perspective View from Above)

2.8.4 Second cam, direction plate



- I : Align the \triangle markings on the control cam and second cam.
- J: The holes on the second cam and the main deck should be aligned.
- $\ensuremath{\mathsf{K}}\xspace$: Insert the stud of the direction plate into the groove on the inner side of the second gear.

Fig. 2-8-4 Gear Positioning 4 (Perspective View from Above)

2.8.5 Pinch roller assembly, cam bracket

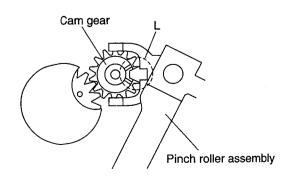


Fig. 2-8-5 Gear Positioning 5 (Top Side View)

L : Orient the notch on the cam gear toward the right.
Insert the stud of the pinch roller assembly into the notch on the cam gear.

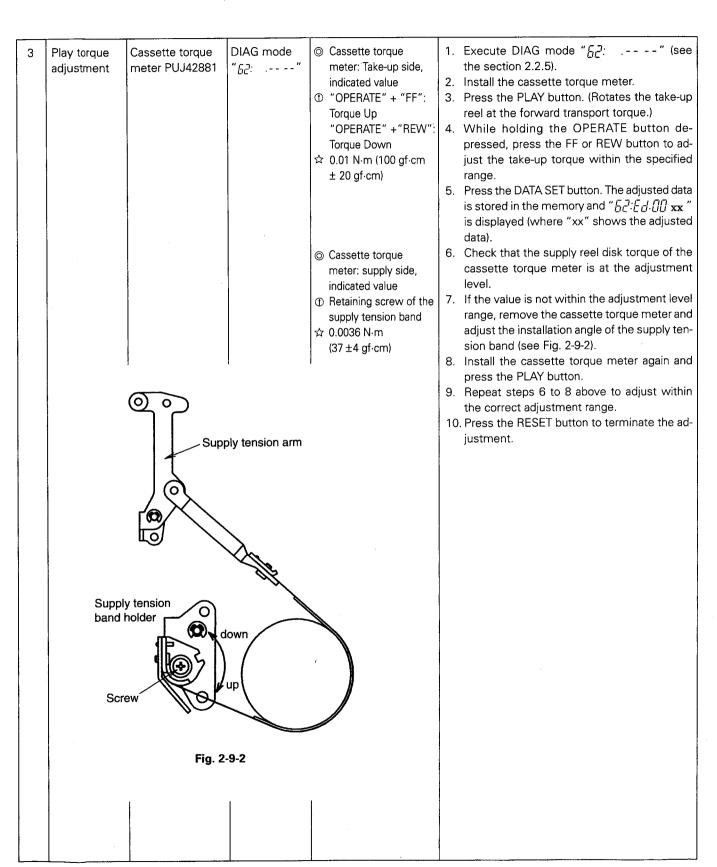
No.	ltem	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
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2.9 TENSION AND TORQUE ADJUSTMENTS

The rotation torque of the reel motor can be adjusted in the DIAG mode by using the Group 7 adjustment menus. To protect the cassette torque meter, the tape is transported by the capstan motor drive during the torque adjustment operations, even when the FF/REW button is pressed.

1	Unloading torque	Cassette torque meter	DIAG mode	Cassette torque meter:Supply side, indicated	1. Execute DIAG mode "&; :" (see the section 2.2.5).
	adjustment	PUJ42881B		value ① "OPERATE" + "FF": Torque Up "OPERATE" + "REW": : Torque Down ☆ 0.015 N·m (150 gf·cm ± I20 gf·cm)	 Install the cassette torque meter. Press the REW button. (Rotates the supply reel at the unloading torque.) While holding the OPERATE button depressed, press the FF or REW button to adjust the supply torque within the specified range. Press the DATA SET button. The adjusted data is stored in the memory and "[i] : [i] xx " is displayed (where "xx" shows the adjusted data).
2	Reverse torque adjustment	Cassette torque meter PUJ42881B	DIAG mode "5F:"	© Cassette torque meter: Supply side, indicated value ⊕ "OPERATE" + "FF": Torque Up "OPERATE" + "REW" : Torque Down	 Execute DIAG mode " 5F:" (see the section 2.2.5). Install the cassette torque meter. Press the REW button. (Initiates the search reverse x 1 mode.) While holding the OPERATE button de pressed, press the FF or REW button to ad
1	ake-up ension arm			☆ 0.01 N·m (110 gf·cm ± 20 g-cm)	just the supply torque within the specified range. 5. Press the DATA SET button. The adjusted data is stored in the memory and "5F:Ed. []] xx' is displayed (where "xx" shows the adjusted data). 6. Check that the take-up reel disk torque of the
		° ©		 © Cassette torque meter: Take-up side, indicated value ⊕ Retaining screw of the take-up tension band ☆ 0.0035 N·m (36 +/-5 gf·cm) 	cassette torque motor is at the adjustmen level. 7. If the value is not within the adjustment leve range, remove the cassette torque meter and adjust the installation angle of the take-up tension band (see Fig. 2-9-1). 8. Install the cassette torque meter again and
				Take-up tension band holder	press the REW button. 9. Repeat steps 6 to 8 above to adjust within the correct adjustment range. 10. Press the RESET button to terminate the adjustment.
		down	or or or or or or or or or or or or or o		
		Fig. 2-9-1	1		

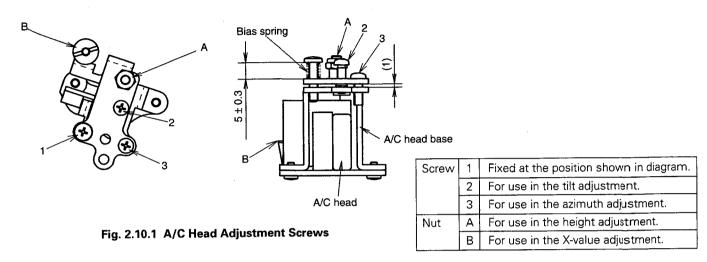
No. Item Measuring instrument & Mode Input signals Mode Adjustment level (☆) Adjustment procedure		
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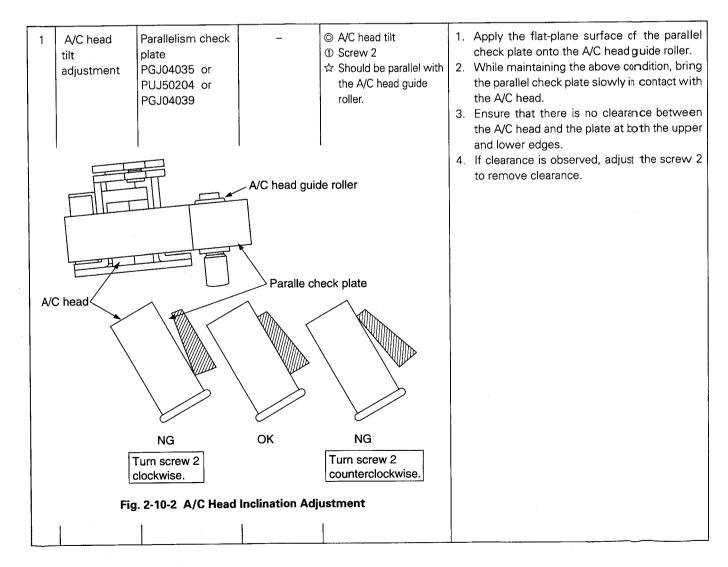


No.	ltem	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
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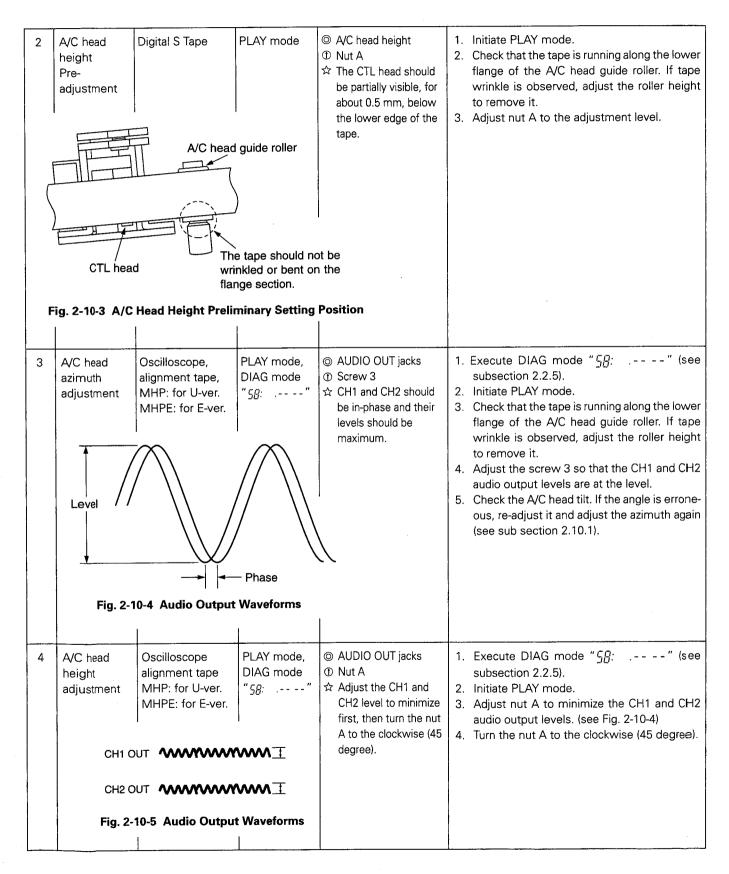
2.10 A/C HEAD ADJUSTMENTS

As the A/C head adjustments affect other adjustments in some degree, the adjustments should be repeated until all of the standards are met simultaneously.

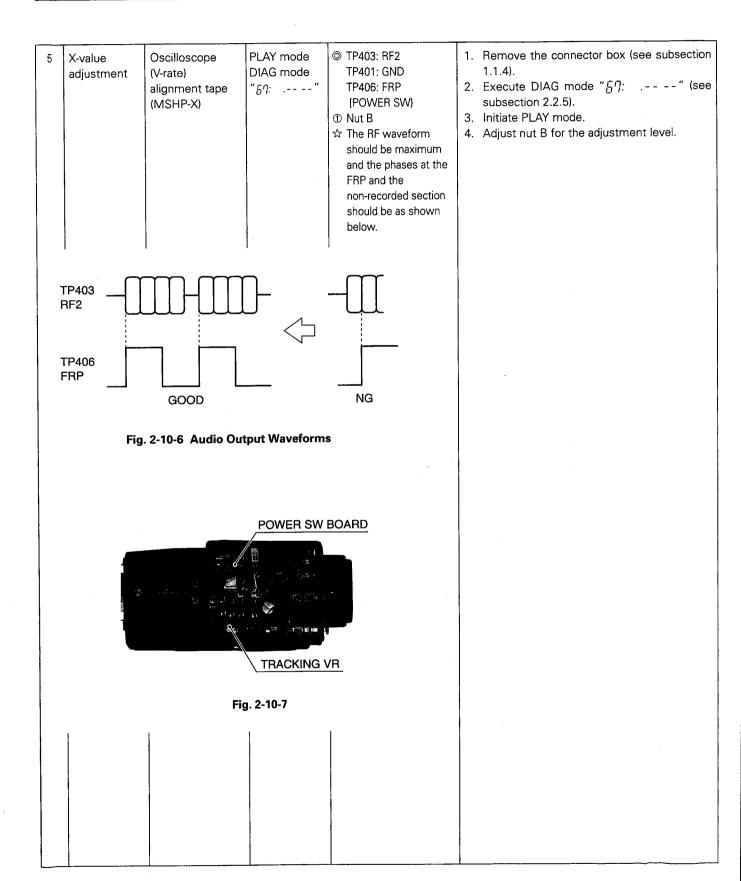




Input signals Adjustment level (☆)	No.	ltem	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
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No.	ltem	Measuring instrument & Input signals		Measuring point (⊚) Adjustment parts(⊕) Adjustment level (☆)	
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2.11 ADJUSTMENT OF INTERCHANGEABILITY

[CAUTION]

• Proceed to the following adjustment after having completed subsection "3.5 SERVO SYSTEM ADJUSTMENT" and subsection "2.9 REEL SERVO CIRCUIT ADJUSTMENT".

2.11.1 Interchange ability adjustment flowchart

Fig. 2-11-1 shows the flowchart of the interchange ability adjustment.

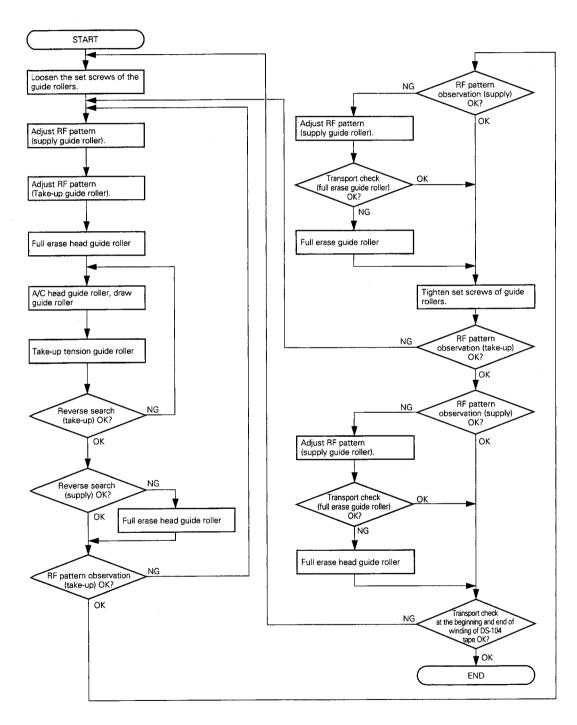
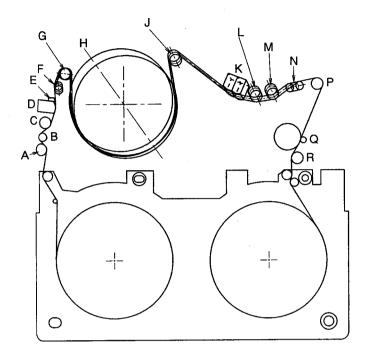


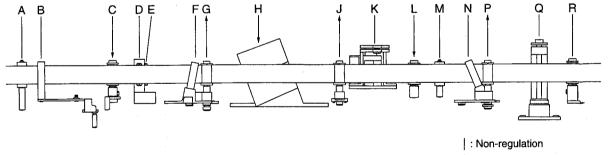
Fig. 2-11-1 Compatibility Adjustment Flowchart

2.11.2 Check of tape transport system



Symbol	Name	Restriction
А	1st guide roller	Non-regulation
В	Supply tension pole	Non-regulation
С	Full erase head guide roller	Tape's lower edge regulation
D	Full erase head	Non-regulation
E	Tape scraper	Non-regulation
F	Supply slant pole	Non-regulation
G	Supply guide roller	Tape's upper edge regulation
Н	Drum assembly	Tape's lower edge regulation
J	Take-up guide roller	Tape's upper edge regulation
K	A/C head assembly	Non-regulation
Ļ	A/C head guide roller	Tape's lower edge regulation
М	Middle guide roller	Non-regulation
N	Take-up slant pole	Non-regulation
Р	Draw guide roller	Tape's upper edge regulation
Q	Capstan	Non-regulation
R	Take-up tension roller	Non-regulation

Fig. 2-12-2



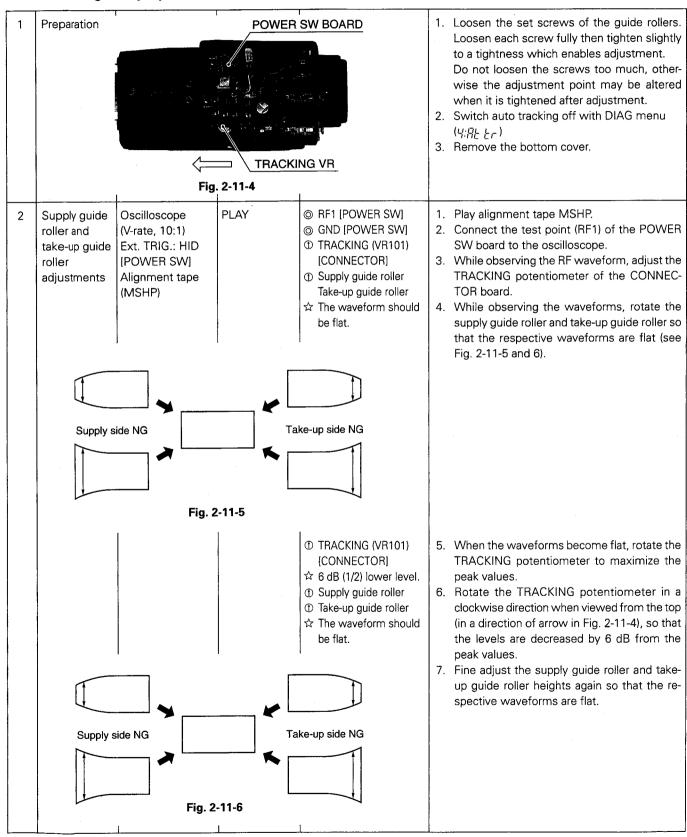
: Tape's lower edge regulation

† : Tape's upper edge regulation

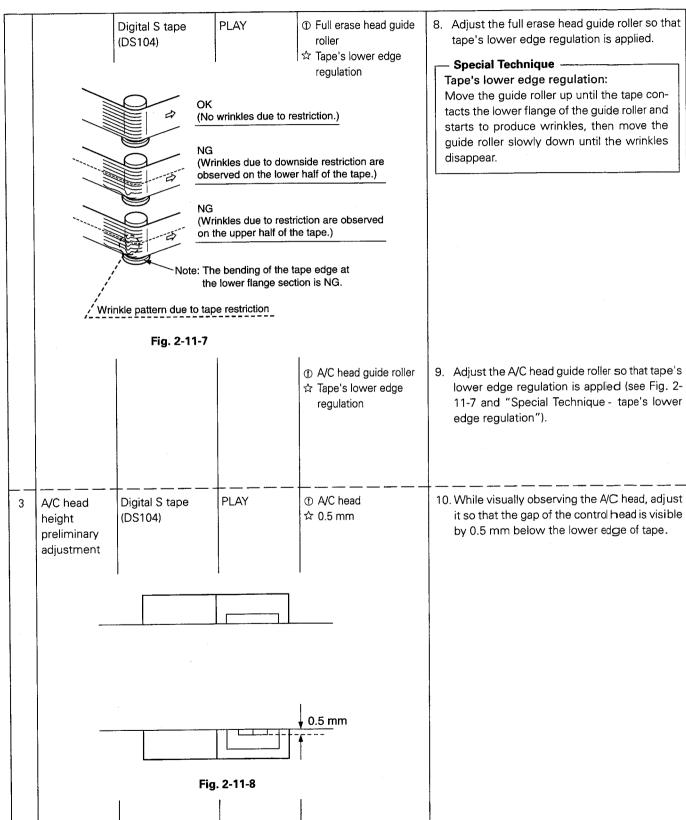
Fig. 2-11-3 View from Cassette Tape Insertion Side

No.	ltem	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
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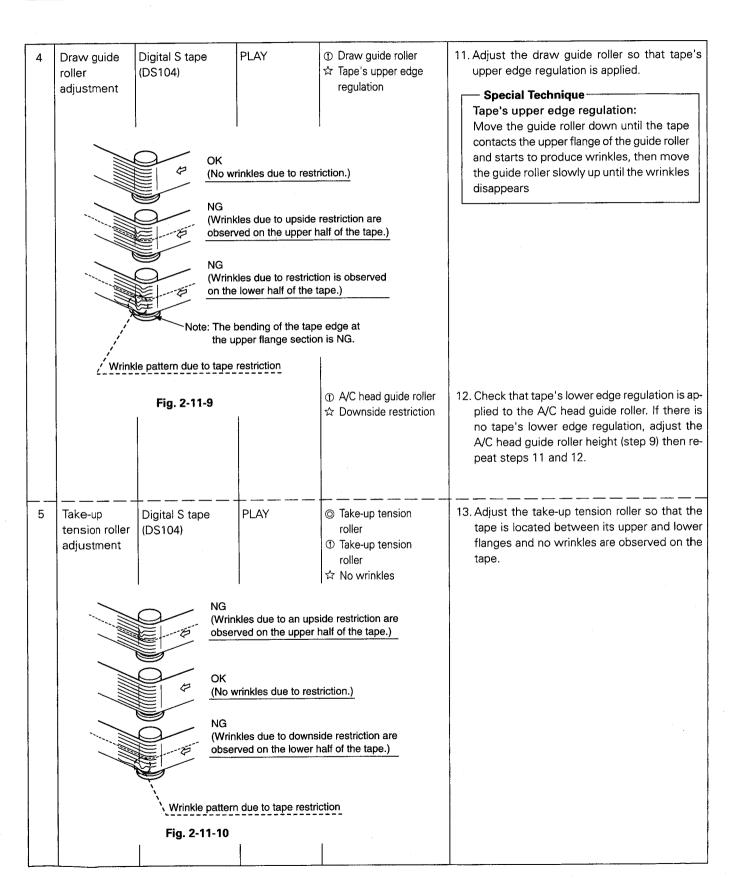
2.11.3 Interchangeability adjustment



No.	ltem	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure



No.	Item	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
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No.	Item	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	--	------	---	----------------------

3	Check	Digital S tape (DS104)	Search, REV	RF1[POWER SW]Between pinch roller and draw guide rollerTraw guide roller	14. Initiate reverse search mode.15. Check that the tape is not twisted between the pinch roller and the draw guide roller and that it is not wrinkled by the A/C head guide
				☆ No twist and no wrinkles ⑤ Full erase head guide roller	roller. If tape twist or wrinkles are observed, fine adjust the draw guide roller height then check the adjustments in steps 11 to 13.
				① Full eerase head guide roller☆ No twist and no wrinklos	 16. Check that the tape is not wrinkled by the fuerase head guide roller. If tape wrinkles are observed, fine adjust the full erase head guide roller height. 17. Initiate PLAY mode.
		Alignment tape	PLAY	© RF1 [power sw]	18. Observe the RF waveform and check that is flat.
		World			19. Check that the positive going of the RF wave form is normal between loading and play an between reverse search and play. If it is abnormal, restart adjustments from ste
					7. 20. Tighten the set screws of the guide rollers 21. Perform the same checking as for steps and 19.
		Digital S tape (DS104)			22. Using the digital S tape (DS104), initiate pl at the beginning of winding, initiate rever search at the end of winding, and check th the tape is not twisted or winkled by the guide rollers. If tape twist or wrinkles are observed, revie the adjustments from step 1 and repeat the
					required adjustments.

No.	Item Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
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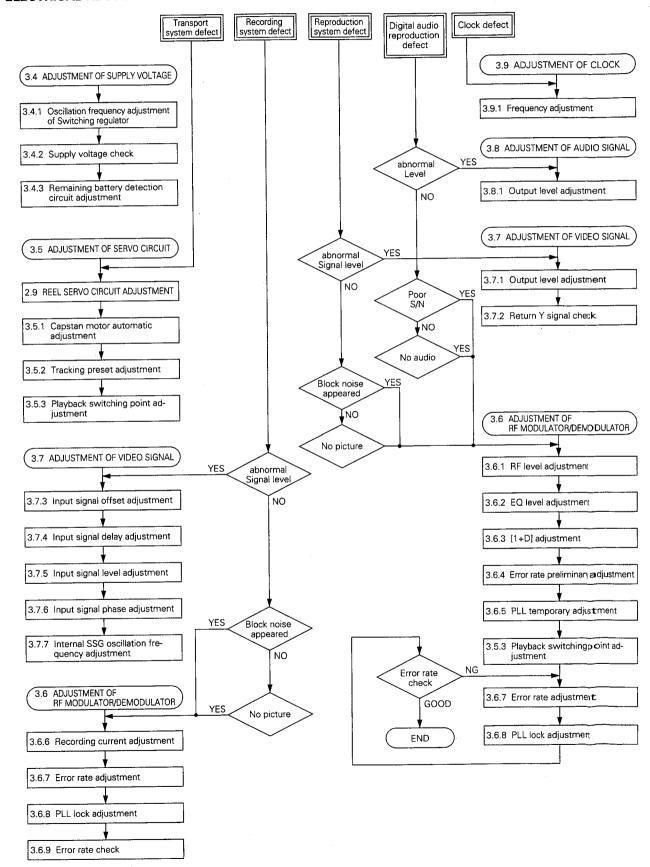
2.12 CHECK OF LINEARITY

[CAUTION] • Proceed to the linearity check after having completed the mechanism adjustments and the tracking preset adjustment.

1	Connection	PC A/D board: KLJ0089 RS-232C connection cable: KLJ0123-2 Alignment tape "MSHP"	DIAG mode	© TRM [POWER SW] © HID [POWER SW]	 Connect the cables (KLJ0123-2) provided with the A/D board (KLJ0089) to the test points TRM (signal) and HID (trigger) on the POWER SW board. For the connection of other cables, refer to the instruction manual provided with the linearity check PC. Boot the PC and set the BR-D40 to the DIAG mode. Load alignment tape "MSHP".
2	Check			☆ No more than 5 μm	 Execute the PVP.bat file (TMS Player) on the PC. For the operating instructions, refer to the instruction manual provided with the A/D board. Check that the measured linearity value is no more than 5 micro. If it is more than 5 μm, perform the subsection "2.11 ADJUSTMENT OF INTER-CHANGEABILITY" again, and then measure the linearity again.

SECTION 3 ELECTRICAL ADJUSTMENTS

3.1 ELECTRICAL ADJUSTMENT FLOWCHART



3.2 REQUIRED MEASURING INSTRUMENTS FOR ADJUSTMENTS, STANDARD SETUP

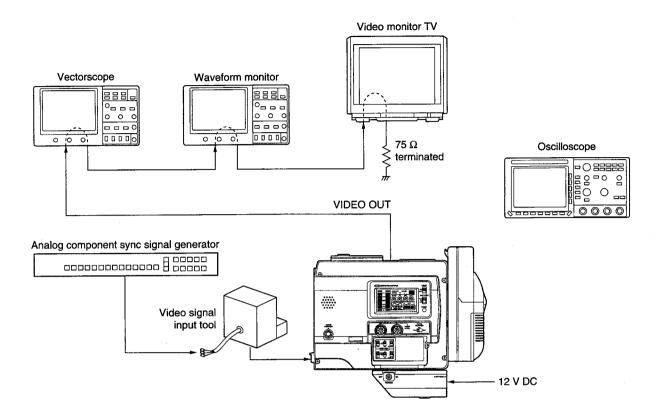
3.2.1 Required measuring instruments for adjustments

Condition	Instrument	Condition
Capable of measuring 100 MHz or higher bands and calibrated.	Vectorscope	Must be calibrated, and capable of measuring 0-setup signals (see the subsection
Capable of measuring 300 MHz or higher		"3.4").
bands and calibrated. (This oscilloscope is	Audio tester	Must be calibrated.
used in Section 3.6, "RF Modulator/	Spectrum analyzer	Must be calibrated. (This is not required
Demodulator System Adjustment".)		when the BR-D80 or BR-D85 is available.)
Readable in 8 or more digits. Constancy of		
0.1 ppm/1 \times 10 ⁻⁷ or more at 0°C to 40°C.		
Input impedance of 10 $M\Omega$ ohm or more, and calibrated.		
	Capable of measuring 100 MHz or higher bands and calibrated. Capable of measuring 300 MHz or higher bands and calibrated. (This oscilloscope is used in Section 3.6, "RF Modulator/Demodulator System Adjustment".) Readable in 8 or more digits. Constancy of 0.1 ppm/1 x 10^{-7} or more at 0°C to 40°C. Input impedance of 10 M Ω ohm or more,	Capable of measuring 100 MHz or higher bands and calibrated. Capable of measuring 300 MHz or higher bands and calibrated. (This oscilloscope is used in Section 3.6, "RF Modulator/Demodulator System Adjustment".) Readable in 8 or more digits. Constancy of 0.1 ppm/1 x 10-7 or more at 0°C to 40°C. Input impedance of 10 MΩ ohm or more,

3.2.2 Required instruments for adjustments

	5 VC-1	
1 12 V DC power supply	5 Video signal input tool: KLJ0126	
DC regulated power supply (output current 4 A or more)		
2 Video monitor TV	6 Alignment tapes	
	MSHP-X: For use in tracking preset adjustment. MSHV-1: For use in RF modulator/demodulator system adjustments. MS-1: For use in video system adjustments (NTSC). MS-2: For use in video system adjustments (PAL).	
3 Waveform monitor (WFM)	7 Digital S tape	
	For use in self-recording/playback. (DS-104) 8 BR-D80 or BR-D85	
Analog component video signal generator Capable of generating the analog component signals mentioned in subsection "3.3.3 Component signals required for video system adjustments". < Example: TSG-300 (Textronix) or equivalent >	A spectrum analyzer is required if the above mentioned model is not available.	

3.2.3 Standard setup



3.2.4 DIAG mode selection procedure

- 1) While holding the ADVANCE button depressed, press and hold the MENU button for more than 3 seconds.
- 2) Press the GROUP button to select group 7 (from " $\S B$: " to "B B: ").
- 3) Press the ITEM button to select the specified menu.
- 4) Press the SELECT button to execute the item. See the subsection "1.3.2" for details.

3.3 BEFORE PROCEEDING TO ADJUSTMENT

3.3.1 Precautions

Before proceeding to any electrical adjustment, it is required to confirm without fail that the objective item (function or part) is out of order. Moreover, for the item that needs exact mechanical adjustment prior to electrical adjustment, make sure that it is mechanically normal first and then proceed to electrical adjustment.

Start electrical adjustment at least 10 minutes after the VCR has been turned on.

Regarding an oscilloscope to be used for measurement, use the 10:1 probe.

3.3.2 Alignment tape specifications

MSHP-X

Video Signal	Audio Signal	Time (min.)	Applications
Color bar (1 track per frame does not contain		50	X-value adjustment and tracking preset adjustment.
video.)			

MSHV-1

Video Signal	Audio Signal	Time (min.)	Applications
Motion picture	Music suund	50	Tracking preset adjustment Playback switching point adjustment RF modulator/demodulator system adjustments

MS-1 [NTSC]

No.	Video Signal	Audio Signal	Time (min.)	Applications
1	Color bar	1 kHz/-20dBFs	10	Video system adjustments
2	Pulse & bar		5	
3	Multi-burst		5	Audio system adjustments
4	Bow-tie		5	

MS-2 [PAL]

No.	Video Signal	Audio Signal	Time (min.)	Applications
1	Motion picture	Music sound	15	
2	Colour bar		10	Video system adjustments
3	Pulse & bar	1 kHz/-20dBFs	5	
4	Multi-burst		5	Audio system adjustments
5	Bow-tie		5	

3.3.4 Note on the vectorscope with the 0-setup video signal measuring capability (NTSC Only)

The component signal to be applied for the electrical adjustments should be a signals with setup. However, the VBS output from the BR-D40 does not include the setup component because it has a simplified output. Therefore, it is required that the vectorscope used in the measurement is capable of measuring signals without setup. The following two types of vectorscope can be used in the measurement.

- 1. A vectorscope which uses a switch for setup switching.
- 2. A vectorscope which can vary the gain on the CRT screen.

Each type of vectorscope should be used properly according to the intended usage. For details, refer to the instruction manual of the instrument.

3.4.1 Vectorscope equipped with a switch

Set the switch to the 0 setup position before proceeding to the measurement.

3.4.2 Vectorscope with variable CRT gain

When using this type of vectorscope, notice the burst display on the CRT. It can be used when the burst section is as shown in Figure 3-4-1.

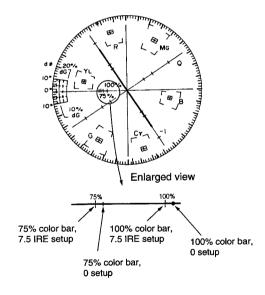


Fig. 3-4-1

- (1) First, ensure that the burst level is 286 mVp-p using an oscilloscope.
- (2) Apply the video signal to the vectorscope and terminate with 75Ω .
- (3) Check that the burst dot is located at the 75% color bar, 7.5 IRE setup position.



Fig. 3-4-2

(4) Adjust the vectorscope's gain so that the burst dot is aligned with the small indication point to the right of the 100% position.

(This is because this adjustment for a 75/7.5/75/7.5 color bar signal.)

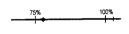


Fig. 3-4-3

(5) Without changing the conditions above, adjust the gain for all the dots(R,G,B,Mg,Cy,Yl)so that they come inside the points.

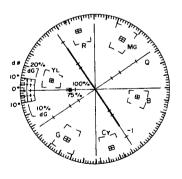
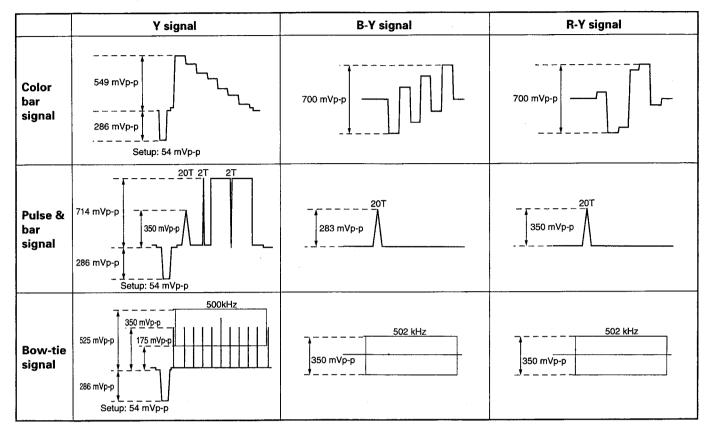
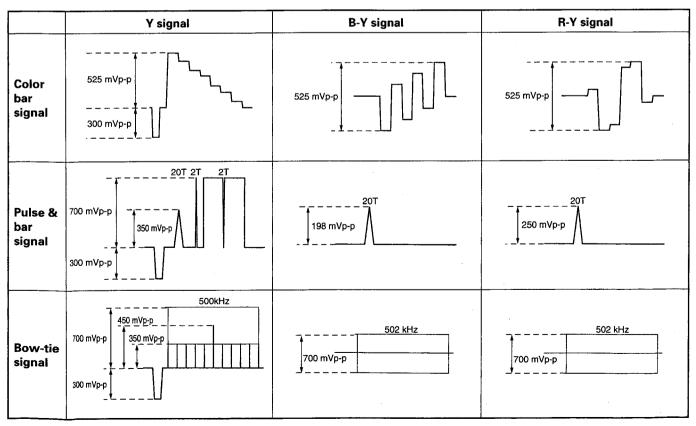


Fig. 3-4-4

3.3.3N Component signals required for video adjustment [NTSC]



3.3.3P Component signals required for video adjustments [PAL]



No.	Item	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
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3.4 ADJUSTMENT OF SUPPLY VOLTAGE

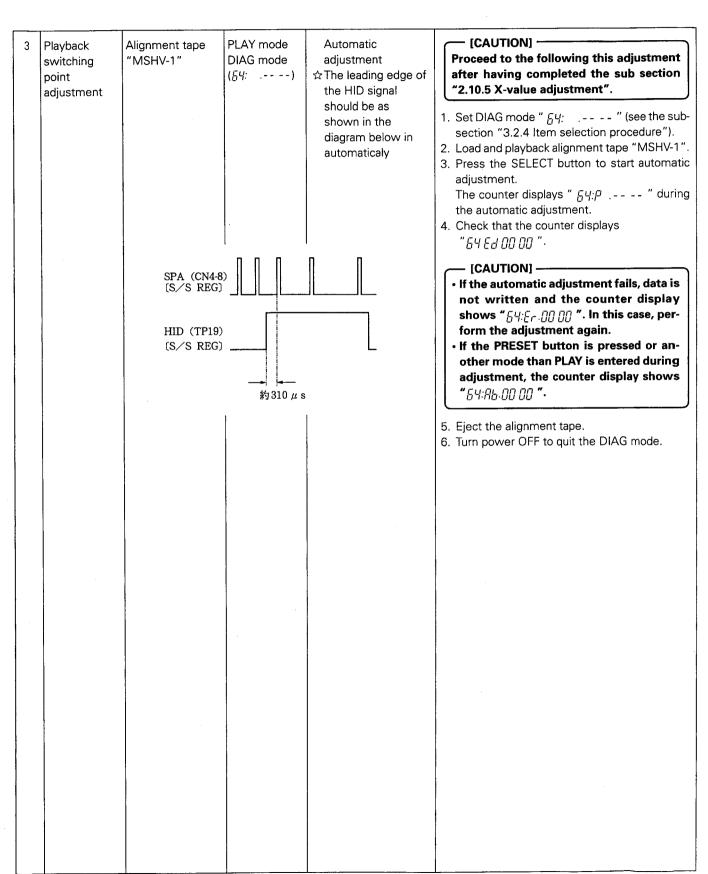
1	Oscillation frequency adjustment of Switching regulator	Frequency counter	STOP	-⊚ TP501 [S/S REG] ⊚ GND TG2 -① (VR501) (S/S REG) ☆ 100kHz	 Put the VCR in stop mode. Adjust VR to obtain the specified frequency at the measuring point.
2	Supply voltage check S/S REG BOA	Digital voltmeter	STOP	© TP502 [S/S REG] ☆ +9 V ± 0.2 V © TP503 [S/S REG] ☆ +5.9 V ± 0.1 V © TP504 [S/S REG] ☆ -5.9 V ± 0.1 V © TP505 [S/S REG] ☆ +5 V ± 0.1 V © TP507 [S/S REG] ☆ +3.3 V ± 0.1 V © TP506 [S/S REG] ☆ +48 V ± 2 V	 After adjustment of subsection "3.4.1 oscillation frequency adjustment of switch regulator", confirm that the VCR is in stop mode. Confirm that the voltage at each measuring points meet the specified level.
3	Remaining battery detection circuit adjustment (automatic adjustment)	+12 V ± 0.03 V ↓ DC INPUT	No cassette, DIAG mode (%6:)	Automatic adjustment	1. Input +12 V +/-0.03 V (4 A or more) to the DC INPUT connector. 2. Set the VCR to the no cassette condition. 3. Set DIAG mode "85:" (see the subsection "3.2.4"). 4. Press the SELECT button to start automatic adjustment. 5. Check that the counter displays "85 Ed 00 xx". 6. Turn power OFF to quit the DIAG mode.

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
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3.5 ADJUSTMENT OF SERVO CIRCUIT

1	Capstan motor automatic adjustment		No cassette DIAG mode (5d:)	Automatic adjustment Adjust the capstan FG (TP13 and TP14 on the [S/S REG]) duty to the 50% in automaticaly. CPU measures FG level (Pin 74 of IC14 on the [S/S REG]) just before the capstan motor is stopped.	 Set the VCR to the non-cassette condition. Set DIAG mode "5d:" (see the section 3.2.4). Press the SELECT button to start automatic adjustment. The counter displays "5d:P" during the automatic adjustment. Check that the counter displays "5d:Ed:0000".
2	Tracking preset adjustment	X value alignment tape "MSHP-X"	PLAY mode, DIAG mode (§8:)	Automatic adjustment ☆ RF ENV (TP15) [S/S REG] envelope should be maximized as a result of the automatic adjustment.	Proceed to the following adjustment after having completed the X-value adjustment. 1. Set DIAG mode "58:" (see the subsection "3.2.4 Item selection procedure"). 2. Load and playback X value alignment tape "MSHP-X". 3. Press the SELECT button to start automatic adjustment. The counter displays "58:P" during the automatic adjustment. 4. Check that the counter displays "68:Ed.00.00". [CAUTION] If the automatic adjustment fails, data is not written and the counter display shows "58:Er.00.00". In this case, perform the adjustment again. If the PRESET button is pressed or another mode than PLAY is entered during adjustment, the counter display shows "68:86.00.00". 5. Eject the X value alignment tape. 6. Perform subsection "3.5.3 Playback switching point adjustment".

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
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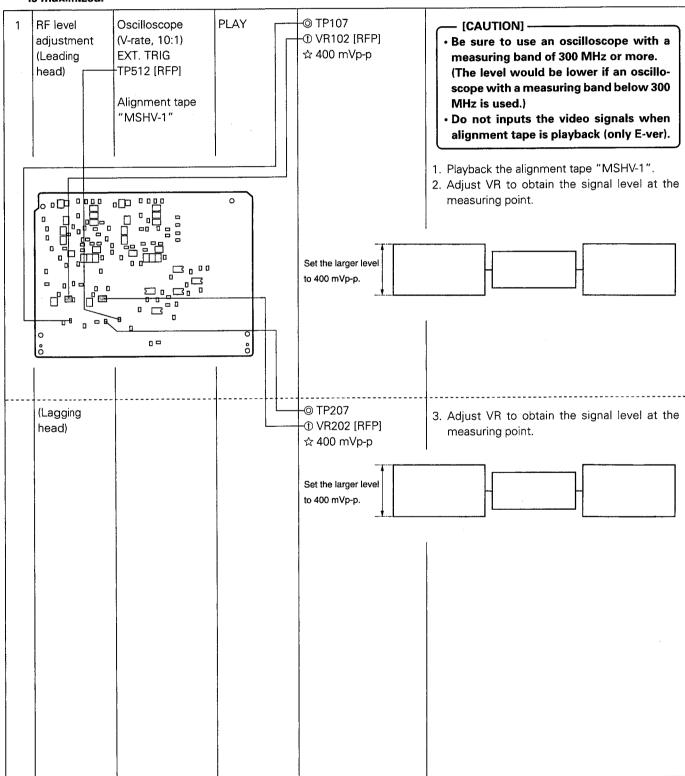


No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
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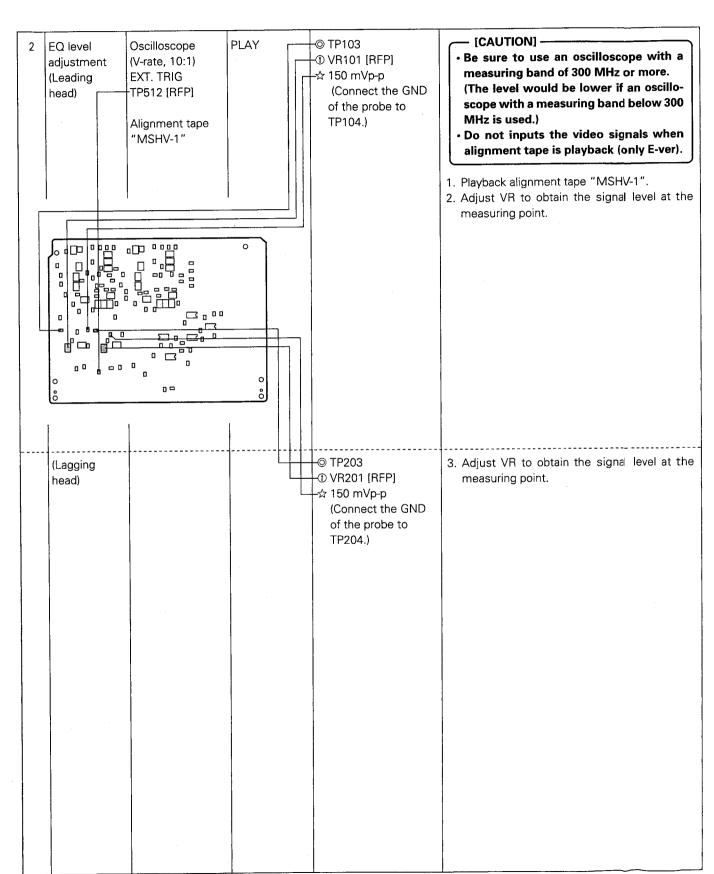
3.6 ADJUSTMENT OF RF MODULATOR/DEMODULATOR

[CAUTION]

- Switch auto tracking OFF. (DIAG menu " 4:86 ½ ")
- Before proceeding to the following adjustments, playback the alignment tape "MSHV-1" and adjust the TRACKING potentiometer (in the connector box) so that the amplitude of the RF waveform at TP207 on the RFP (RF Process) board is maximized.



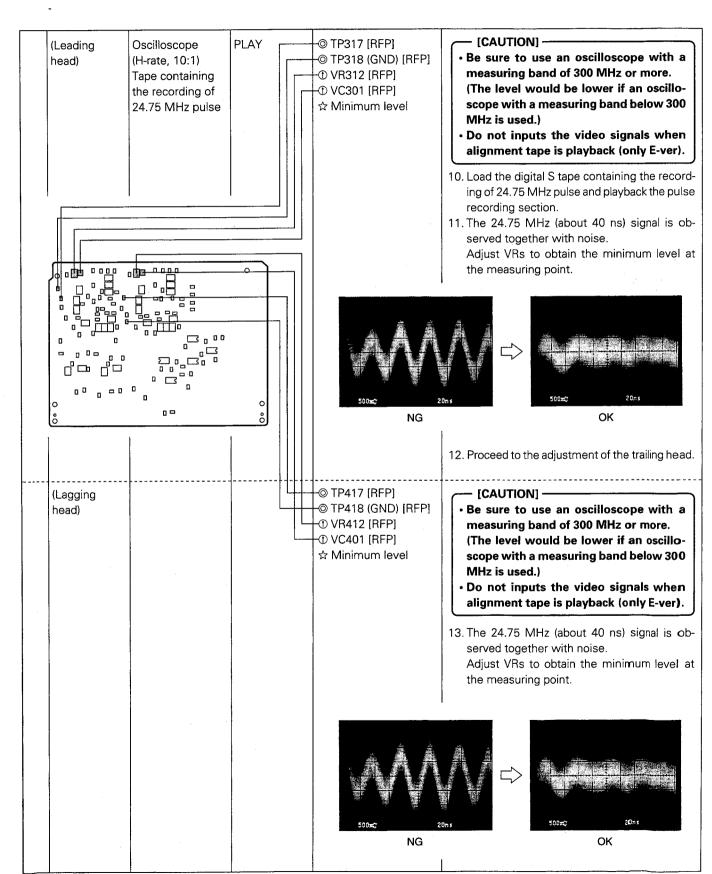
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure	
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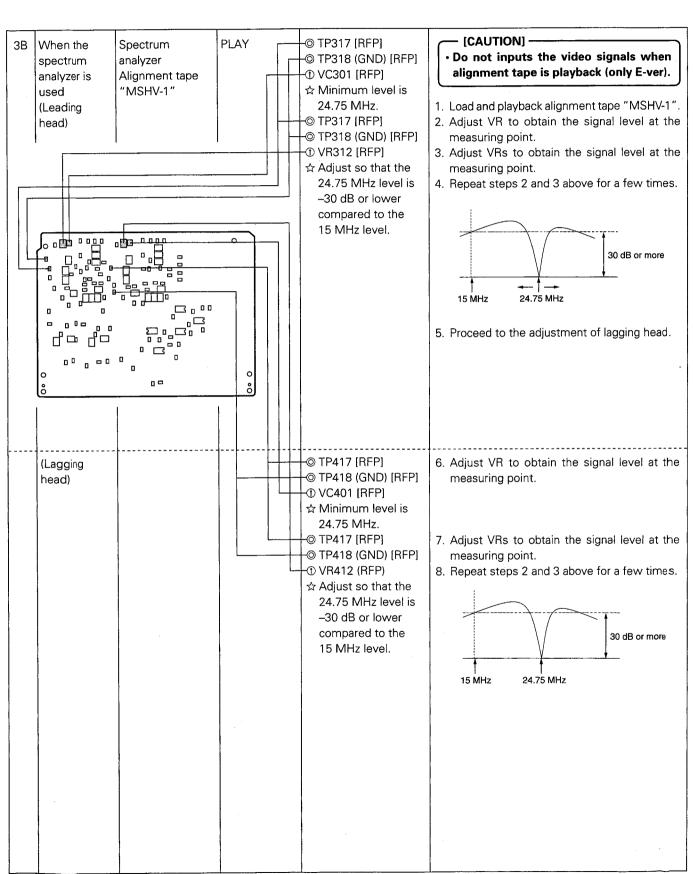
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
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3	[1+D] adjustment	• This adjustment requires the use of the BR-D80, the BR-D85 or a spectrum analyzer. Therefore, the adjustment procedure in the case of the BR-D80 or BR-D85 is as described in subsection 3A and in the case when a spectrum analyzer is used as described in subsection 3B. Select either subsection according to the available instruments.						
3A	When the BR-D80/BR-D85 is used (Preparation)	BR-D80/BR-D85 mode Menu switch "No. 111", internal color bar Test mode (6F 00 00) REC mode	PREPARATION] • Create a tape on which a 24.75 MHz pulse is recorded by using the following method. • Do not inputs the video signals when alignment tape is playback (only E-ver). 1. Press the MENU button of the BR-D80 or BR-D85 to select "No. 111", then select "INTER-NAL COLOR BAR" and press the SET button. 2. Turn power OFF then turn power ON again in the test mode. Note A) Turn the power switch to on. B) Press the "COUNTER RESET", "FF" and "REW" buttons at the same time within 2 second after counter display "□□□□□□□". 3. Press the MENU or SET button so that the counter displays "□□□□□□". 4. Press the COUNTER RESET button and check that the counter displays "□□□□□□". 5. Load a digital S tape. 6. Press the REC and PLAY buttons to start recording. 7. After recording for a few minutes, press the STOP button. 8. Press the COUNTER RESET button and check that the counter displays "□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□					

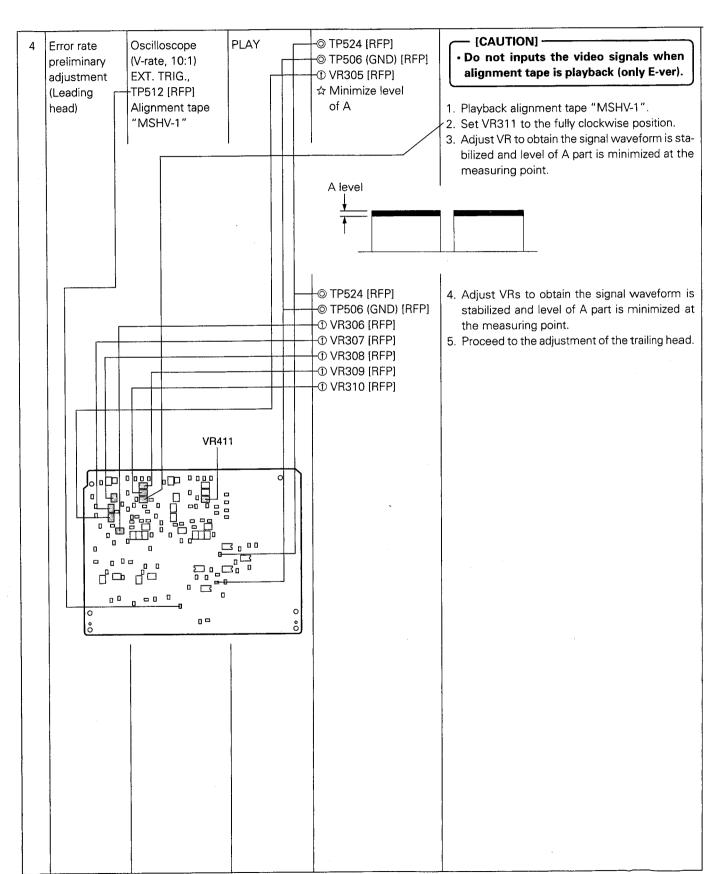
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
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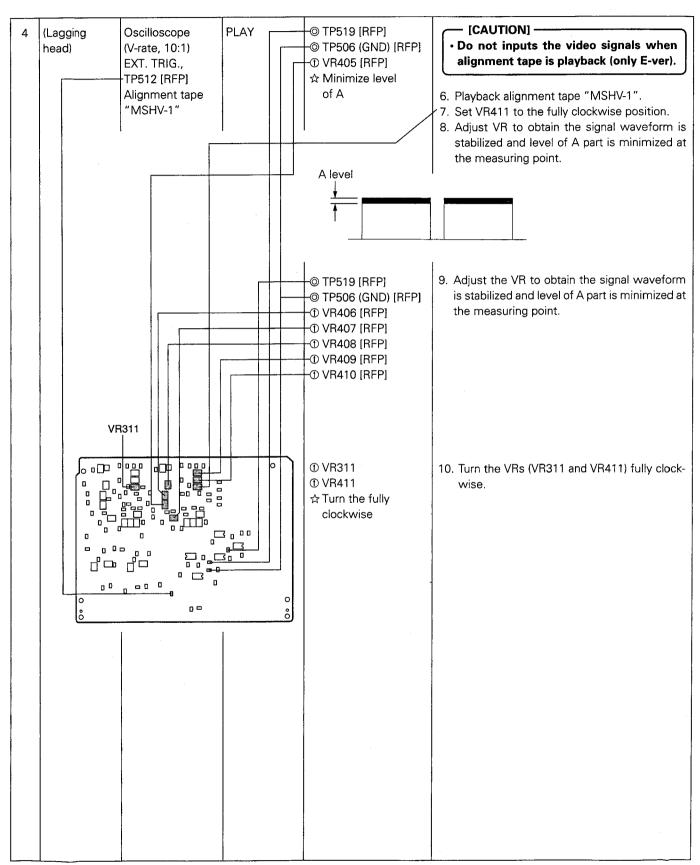
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure	
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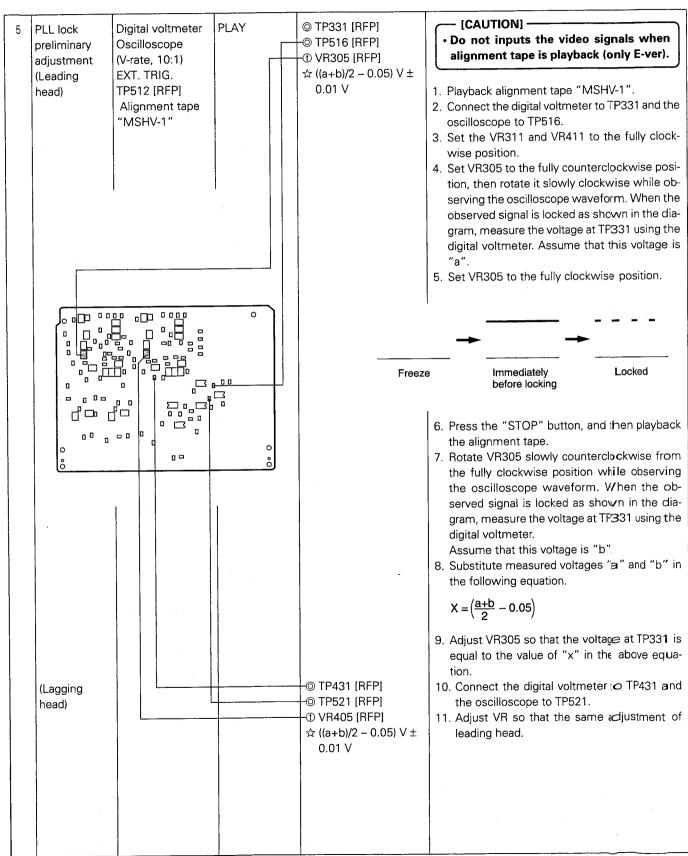
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
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No.	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
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No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
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No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
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[CAUTION] Before proceeding to Section 3.6.6, "Recording current adjustment" and Section 3.6.7, "Error rate adjustment", complete 2.0.0, "Switching point adjustment" and switch auto tracking ON.

6 Recording current adjustment Digital S tape STOP mode DIAG mode (172: .----)

- The automatic adjustment is executed in the following sequence.
- A) It so recorded the signal 4 times that recording current shifted 16 steps (1 step is about 4 second) (the total required time is about 4 minutes). During this the display shows

- B) Tape is rewound to the recording start point in REV search mode. The display shows " 72:P .2000" during this.
- C) The VCR enters PLAY mode and detects the playback level of the recorded section. Then the optimum playback level of each head (CH1 leading, CH2 trailing) is identified and the recording currents are determined based on this analysis (the required time is about 4 minutes). During this operation, the display shows

data 1: The head being detected (1 to 4). data 2: Hex data between 00H and FFH. When the playback levels of all the steps have been detected and the optimum values are identified, the displayed data changes.

D) When the optimum values of all the heads have been identified, the VCR enters STOP mode and automatic adjustment is completed.

- 1. Set DIAG mode " 72: .-- -- " (see the subsection "1.3.2 Item selection procedure").
- Load a digital S tape and put the VCR in stop mode.
- 3. Press the SELECT button to start automatic adjustment.
- 4. Check that the counter displays "72:Ed:00 00 ".
- 5. Quit the DIAG mode.
- Proceed to sub section "3.6.8 Error rate adjustment".

[CAUTION]

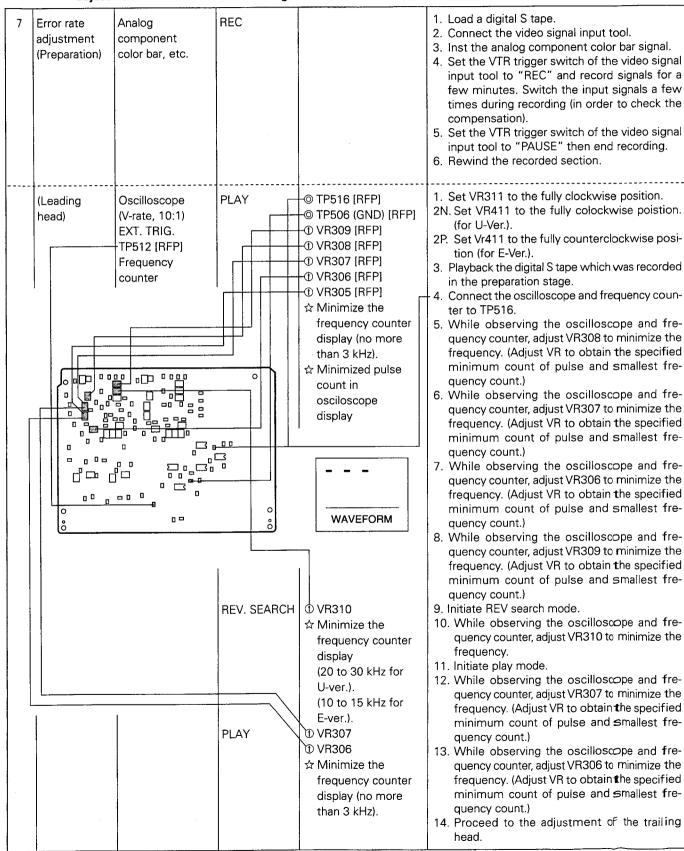
Counter display " אָב: צָּרָ בְּיֵהְ מֵחָהְ " appears for one of the following reasons;

- a) the PRESET button is pressed during operation; or
- b) the VCR mode is changed; or
- c) the tape end is detected; or
- d) the adjustment is defective.

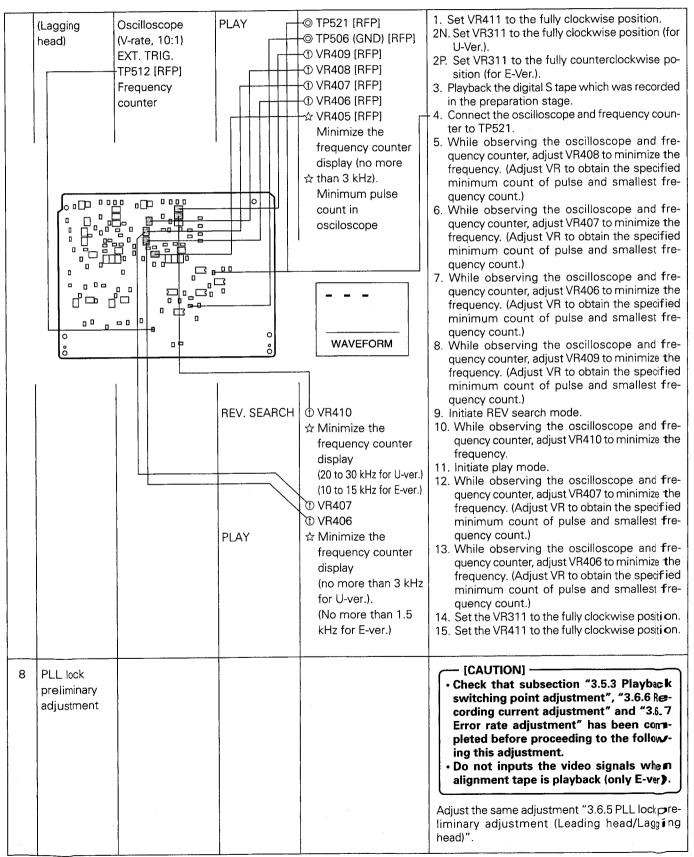
If the reason is a) or b), restart adjustment from the beginning. If the reason is c), rewind tape and restart adjustment. If the reason is d), perform the adjustments in subsection "3.6.1" to "3.6.5" again.

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

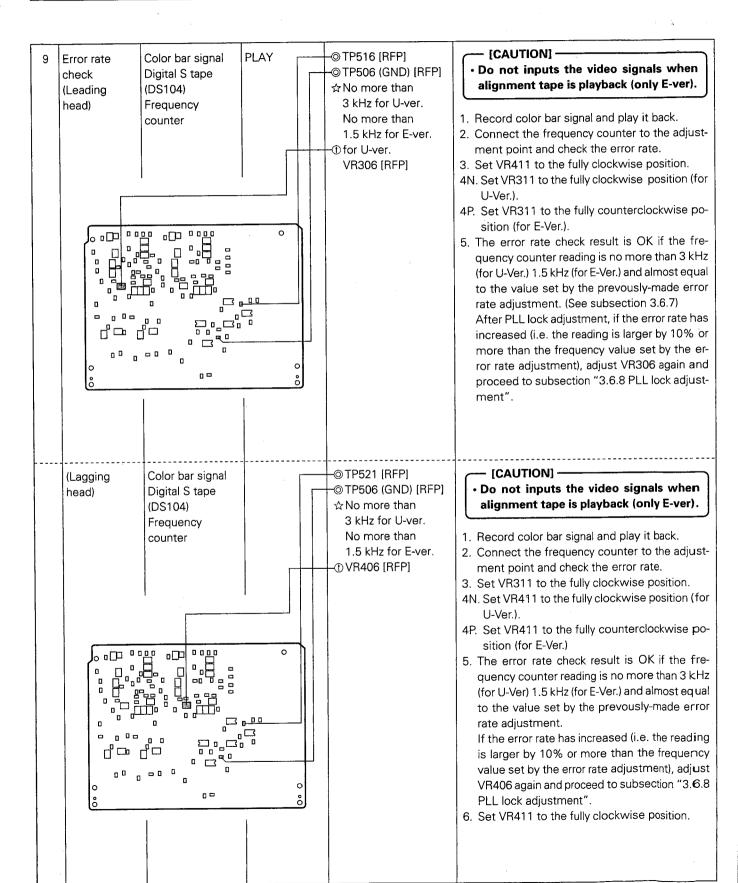
[CAUTION] Before proceeding to subsection "3.6.7 Error rate adjustment", complete "3.5.3 Playback switching point adjustment" and switch auto tracking ON.



No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

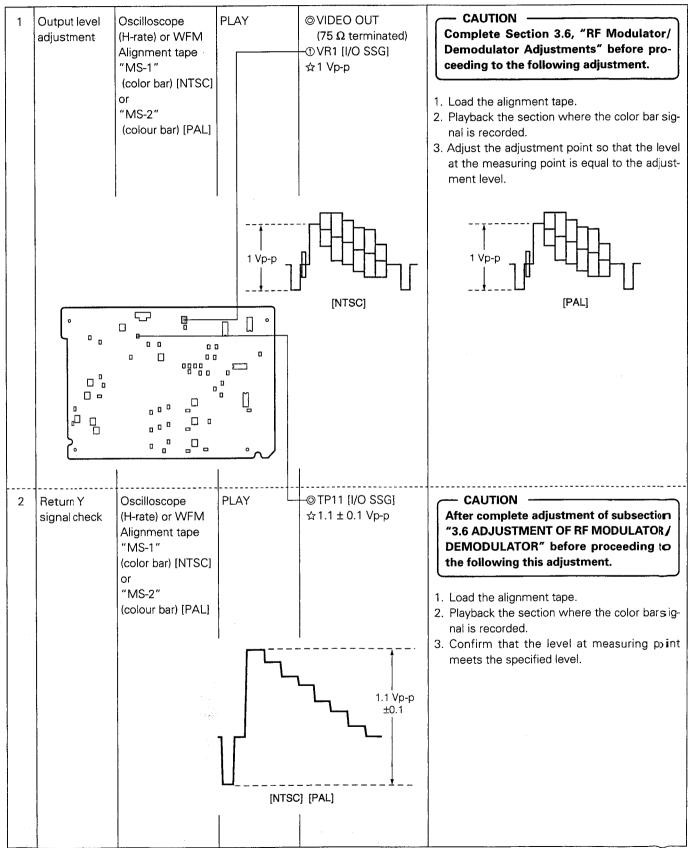


No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure	,
-----	------	---	------	---	----------------------	---

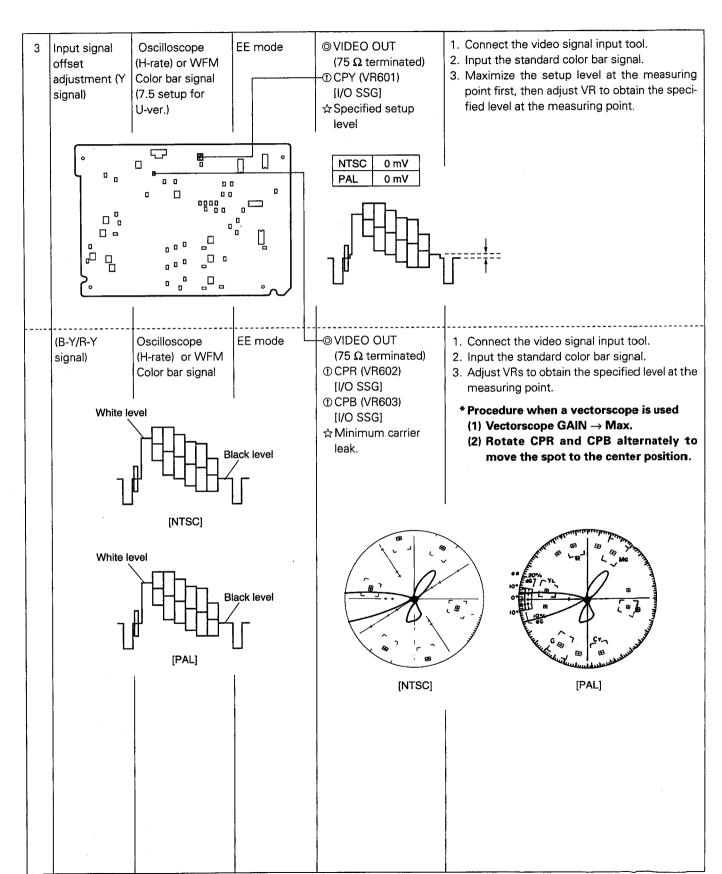


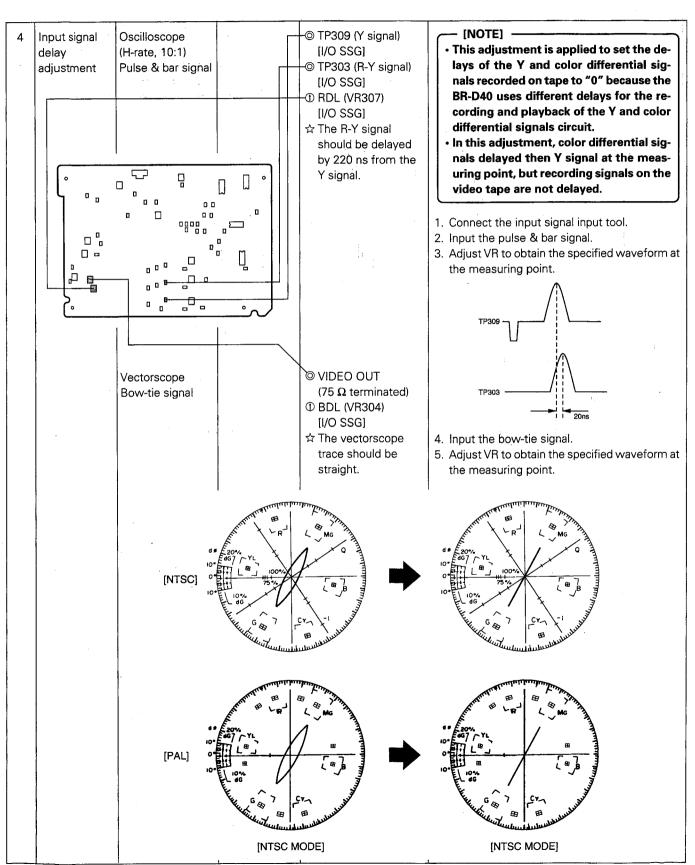
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

3.7 ADJUSTMENT OF VIDEO SIGNAL

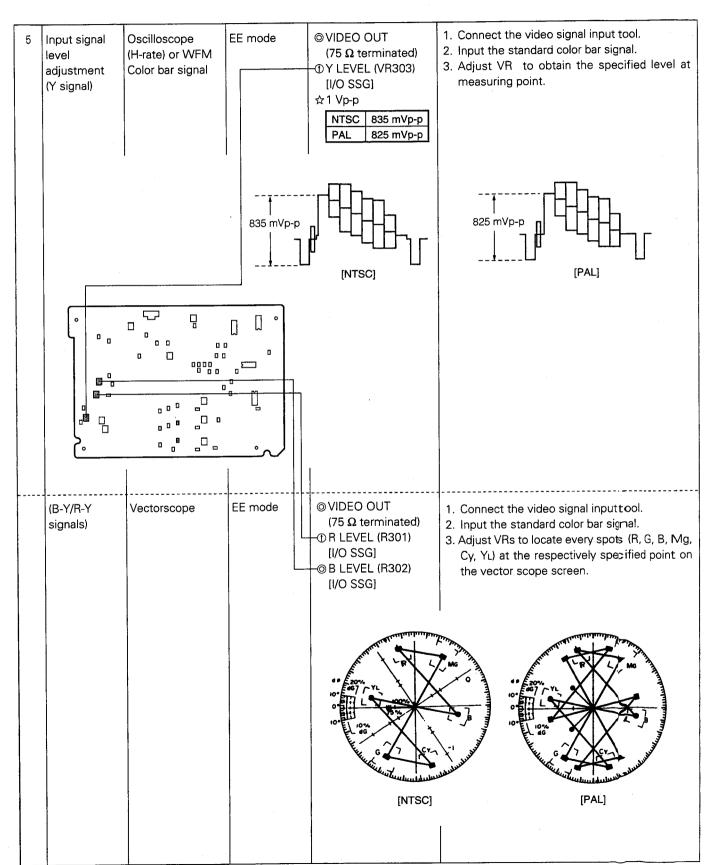


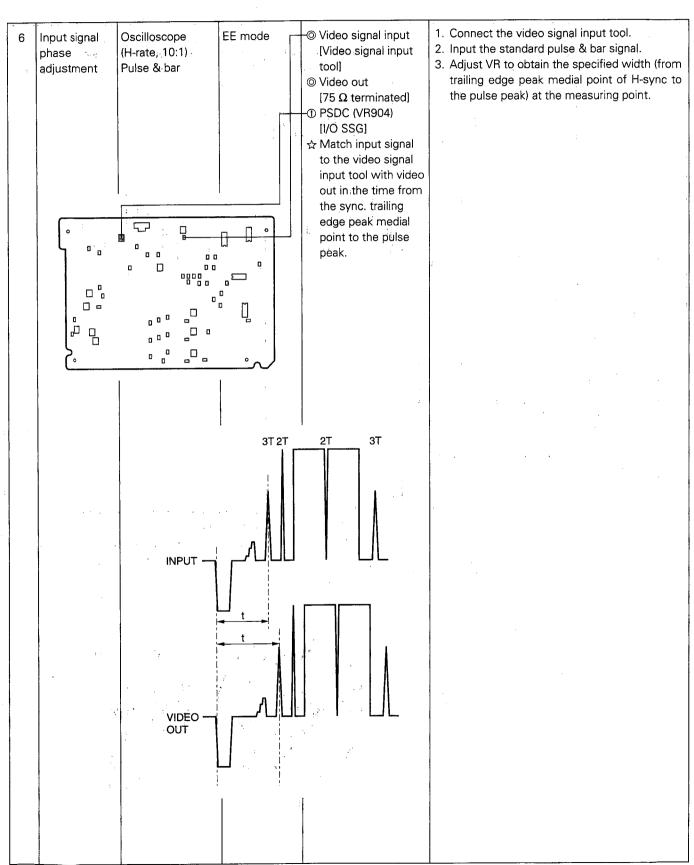
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------



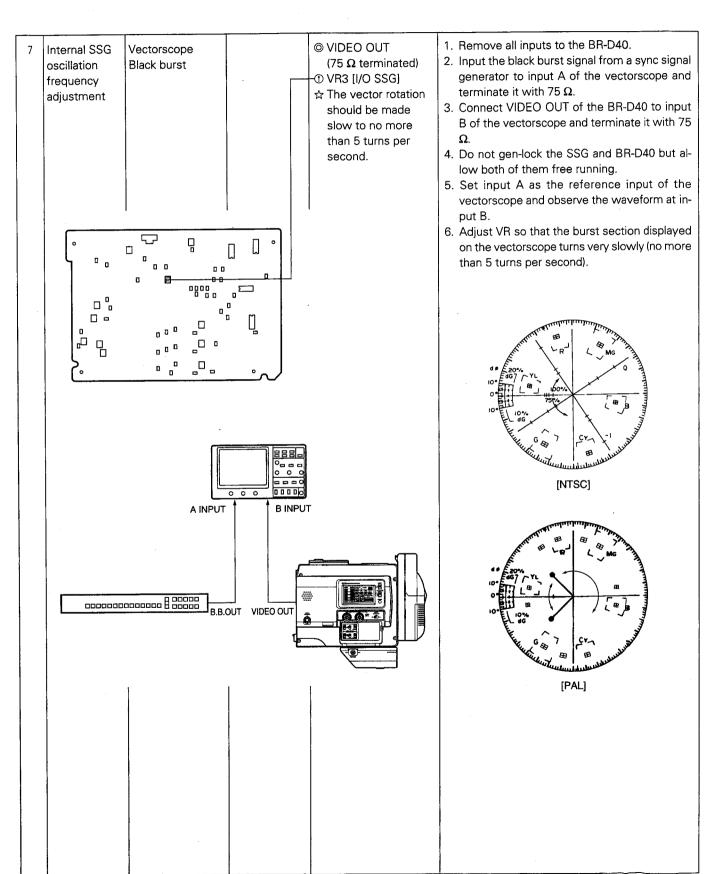


No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	
-----	------	---	------	---	--



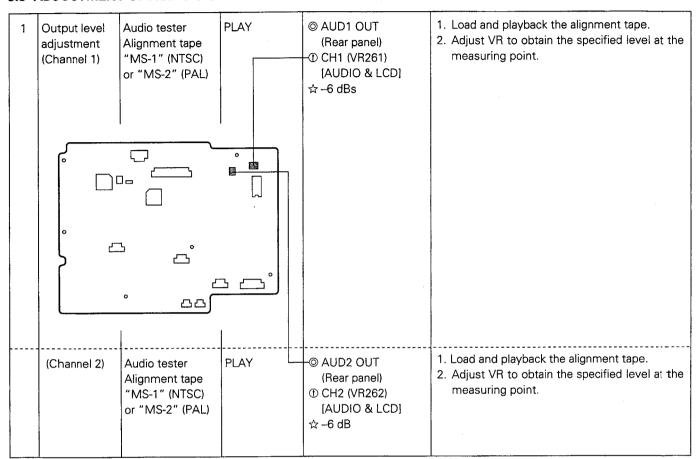


No.	Item	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

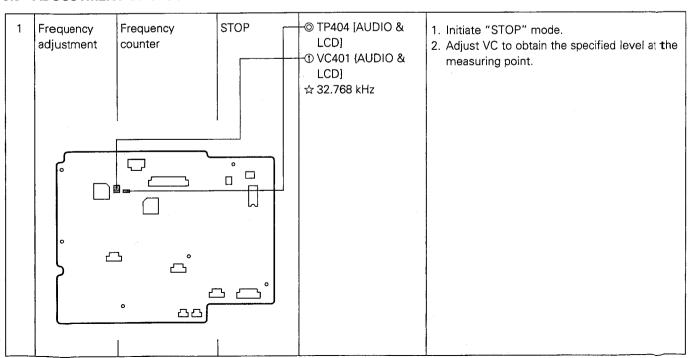


No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure	
-----	------	---	------	---	----------------------	--

3.8 ADJUSTMENT OF AUDIO SIGNAL



3.9 ADJUSTMENT OF CLOCK



SECTION 4 DIAGRAMS AND CIRCUIT BOARDS

■ FOREWORD

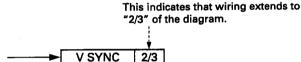
1. Expression of wiring

As the following circuit diagram is divided to print on some sheets, such an indication as the following is found in the case the wiring extends over two or more divided sections.

1) Circuit diagram divided into two or more sections:

Board	Board Name	Number of divided sections
01 02 03 04 05 06	AUDIO & LCD PV PROCESS I/O SSG RFP S/S REG PRE/REC OVERALL	1/4 - 4/4 1/7 - 7/7 1/3 - 3/3 1/5 - 5/5 1/3 - 3/3 1/3 - 3/3 1/2 - 2/2

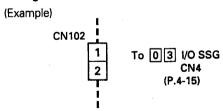
2) Indication of wiring which extends to another section: (Example)



Signal name

In the above case, the end of the wiring is connected to the "V SYNC" on the 2nd section of the diagram.

2. Wiring of connector



In the above example, CN102 is connected with CN4 on 003 I/O SSG board.

3. Signal flow on the diagram

The following allow marks indicate the specified signal paths respectively.

: Recording or EE signal path

: Playback signal path

: Recording and Playback signal path

4. Measurement of voltage

Measured by digital voltmeter in REC mode. Volue in () is indicated only in the case PB voltage is different from that in REC mode.

5. Unit of value

Unless otherwise specified:

- 1) Resistance is in Ω (1/6 W)
- 2) Capacitance in μF
- 3) Inductance in µH
- 4) The ▲ symbol and screened parts in () are important for safety assurance. When replacing them, use specified parts.

6. Others

In regard of a board assembly whose circuit is composed of multilayered board patterns such as 4- or 6-layered patterns, board patterns of the power supply lines and grounding lines are omitted in this section.

Note: For detail of each electrical part, refer to Section 6 "ELECTRICAL PARTS LIST" by it symbol number.

4.1 REPLACING SUBMINATURE "CHIP" PARTS

1. General description

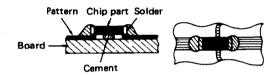
Some of resistors, variable resistors, shorting jumpers (0 Ω resistors), ceramic capacitors, transistors, diodes are chip parts. Those removed once cannot be used again.

2. Replacement of chip parts

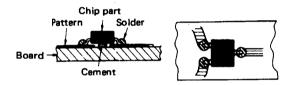
Replacement of chip parts should be performed as follows. Use a soldering iron (17 W for 260-30°C approx.) that has sharp-pointed tip and high performance in insulation.

It is more convenient to use a soldering iron with solder absorber (55 W approx.).

- (1) Soldered condition of chip parts
- Resistors, capacitors, etc.



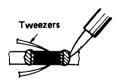
• Transistors, diodes, etc.



- (2) Removing of chip parts
- Resistors, capacitors, etc.
 - i) Melt solder at a side.



ii) Holding the chip with tweezers, melt solder at the other side.



iii) Take off the chip in twisting and sliding motion.



- Transistors, diodes, etc.
 - i) Melt solder at the side of single lead.



ii) Lift the unsolderd side upwards.



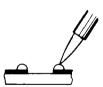
iii) Simultaneously melt solder at two leads of the other side and pull up the chip.



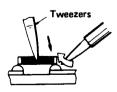
(3) Preheating and soldering of chip parts

Except transistors, make sure to preheat all chip parts, capacitors in particular, with a hot wind of 150°C approx. (of a hair dryer, etc.) for 2 minutes just before soldering, and immediately solder by a soldering iron of approx. 30 W.

- (4) Attaching of chip parts
 - i) Heap up a proper amount of solder beforehand.



ii) Holding down a new chip by tweezers, solder it to the board by a soldering iron to melt solder from its lower part to the upper part (in the direction shown by a big arrow).



Note: • Don't heat chip parts over 3 seconds.

- Don't rub electrodes.
- Don't use chip parts which were once removed.
- No cement is required.

3. Shapes of stransistors & diodes

Transistors

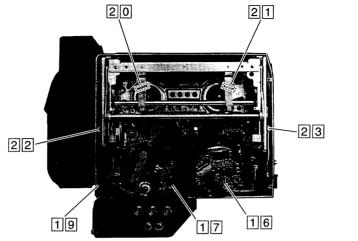
Transistors	
DTA124EK DTA144EK DTC114EK DTC114FK DTC144FK DTC144EK DTC144EU FMC2 FMG1 FMG2 FMS1 FMW1 IMX1 IMZ1 IMZ2 XN4504 XN6401 2SA1022C 2SB709 2SC2412K 2SC2778 2SC2873 2SC4081 2SD601/A 2SD602/A 2SJ278S 2SJ279S 2SK621	2 1 1 15 3 3 4 5 6 7 8 6 8 8 9 9 9 9 9 9 9 9 9 17 17 10 10 10 10 10 10 10 10 10 10 10 10 10
DAN202K	11
DAP202K	12
DA204K	14
MA28WA	13
MA3056 MA3075	13 13
IVIASU75	

4	9	1
500000000000000000000000000000000000000		C1 A2 A1 C2
5	10	1
2 34 5 5 4 5	G S R1	50

1	6	11	16
B C OUT OUT OUT OUT OUT OUT OUT OUT OUT OUT	4 5 6 5 3 3 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CATHODE	
2	7	12	17
B C OUT	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ANODE	
3	8	13	18
2 3 4 5 2 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		C N NC	6 0 1 5 0 2 4 0 3

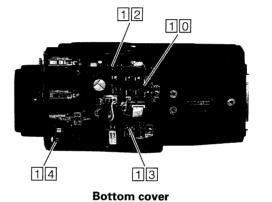
4.2 INDEX TO PAGES OF MAIN BOARDS AND CIRCUIT BOARD LOCATION

4.2.1 Circuit board location



07
06
11
03
02

Left side cover



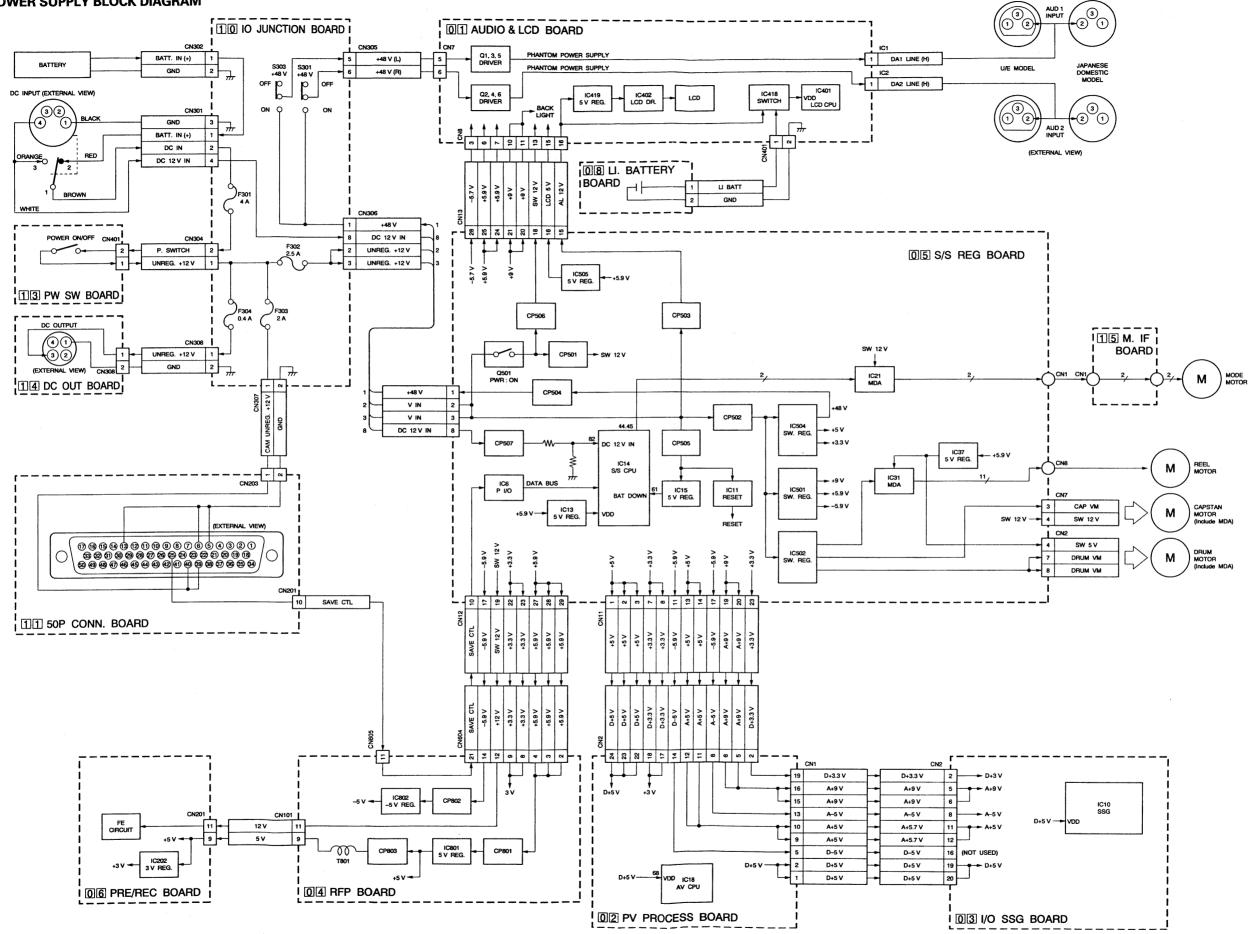
Right side cover

4.2.2 Index to pages of main boards

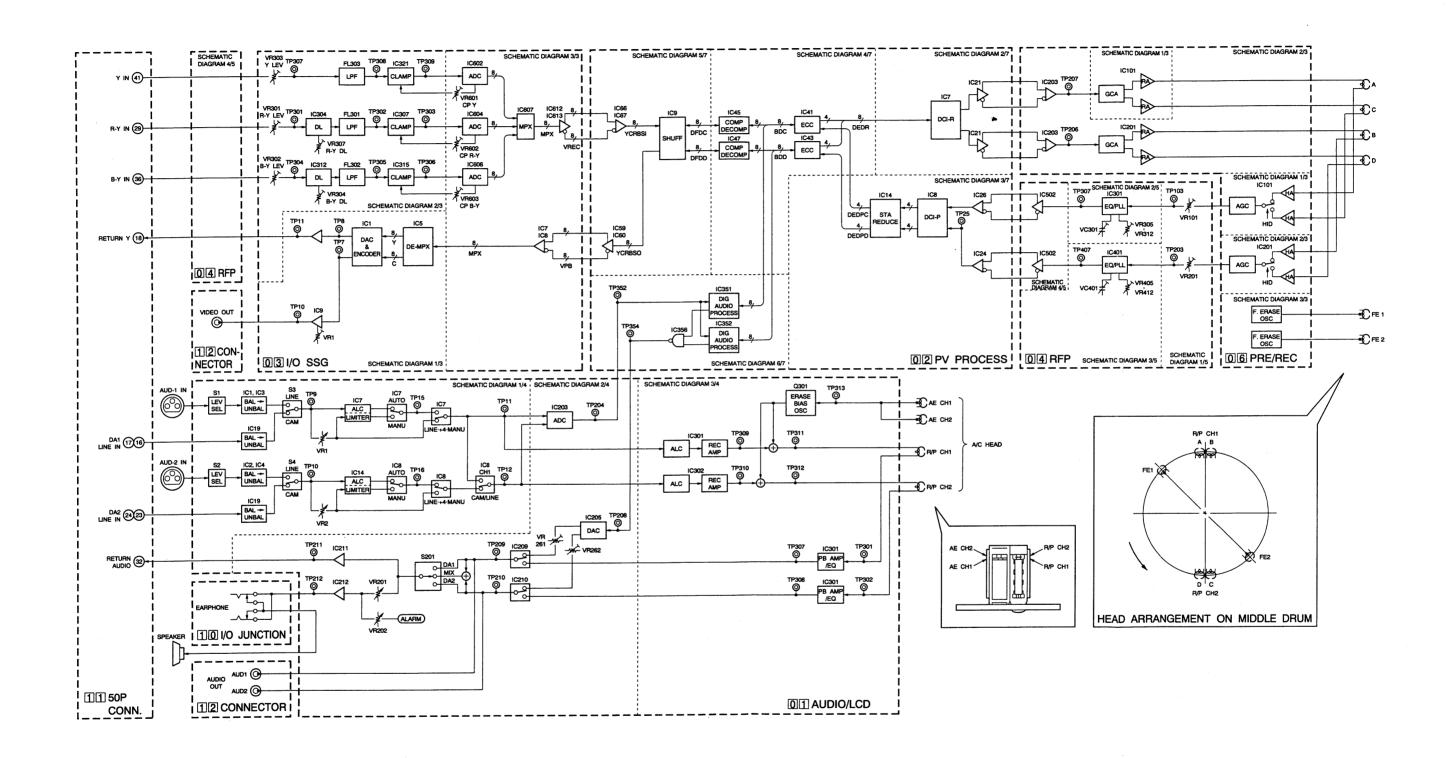
_		Page of diagram						
Board No.	Board Name	Block diagram	Schematic diagram	Circuit board				
01	AUDIO & LCD	4-12, 4-13	4-36 to 4-39	4-40 to 4-41				
02	PV PROCESS	4-9	4-19 to 4-24	4-25				
03	I/O SSG	4-8	4-15 to 4-17	4-18				
04	RFP (RF PROCESS)	4-10	4-26 to 4-29	4-30 to 4-31				
05	S/S REG	4-14	4-42 to 4-44	4-45				
06	PRE/REC	4-11	4-32 to 4-34	4-35				
07	OPERATION	_	4-47	4-47				
10	IO JUNCTION	-	4-47	4-47				
	50P CONN.	-	4-50	4-50				
12	CONNECTOR	-	4-50	4-50				
113	POWER SW	-	4-49	4-50				
114	DC OUT	-	4-49	4-50				
115	MECHA. IF	-	4-48	4-50				
116	DRUM MDA	_	4-46	4-46				
100	A/C HEAD	_	4-48	4-50				
118	MODE SENSE	_	4-48	4-50				
119	AL SENSE	_	4-48	4-50				
20	TU REEL FG	_	4-48	4-50				
21	SP REEL FG	_	4-48	4-50				
22	BEGIN SENSE	_	4-48	4-50				
23	END SENSE	_	4-48	4-50				
	OVERALL	-	4-48 to 4-49	4-50				

4-3

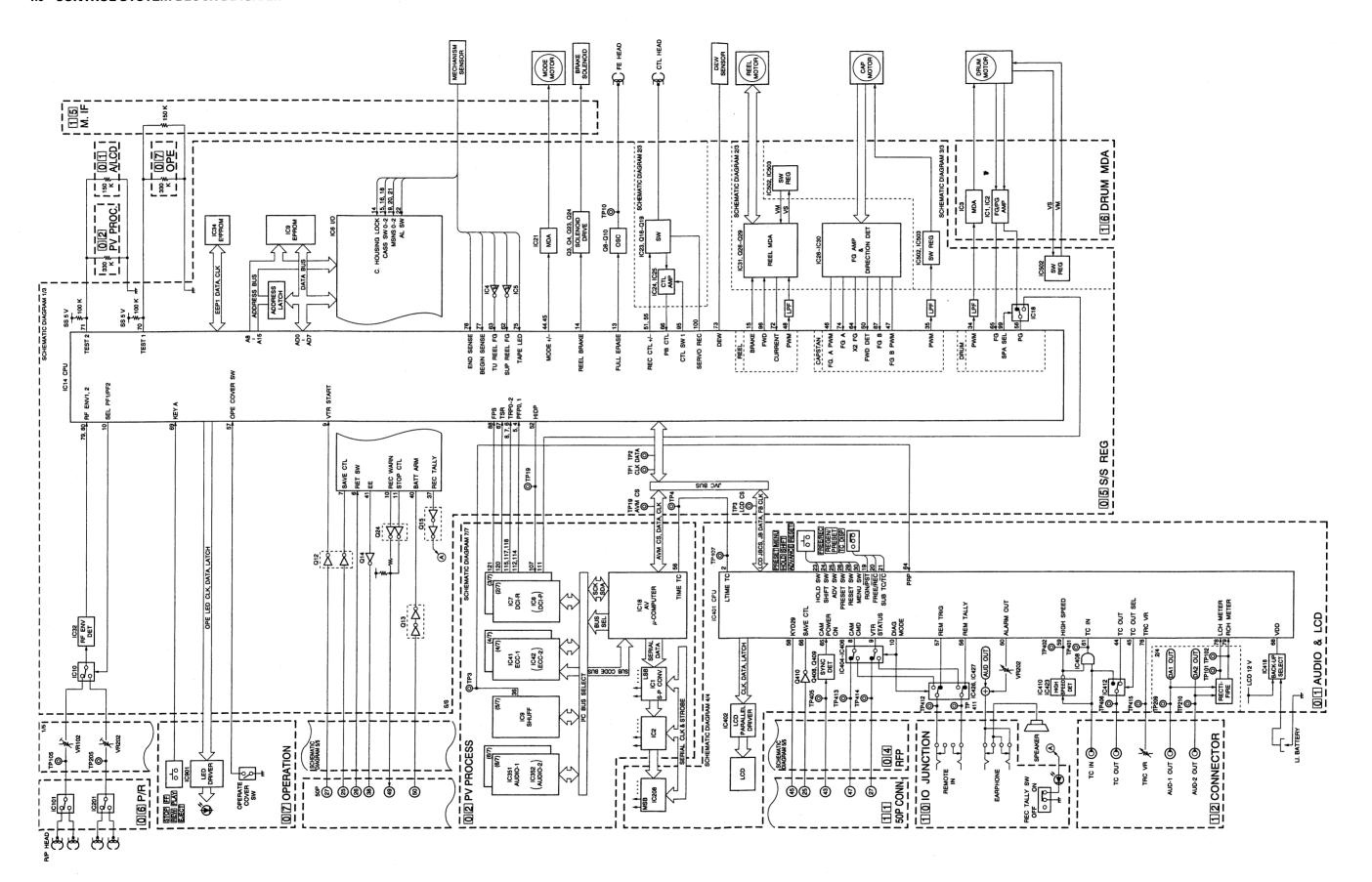
4.3 POWER SUPPLY BLOCK DIAGRAM



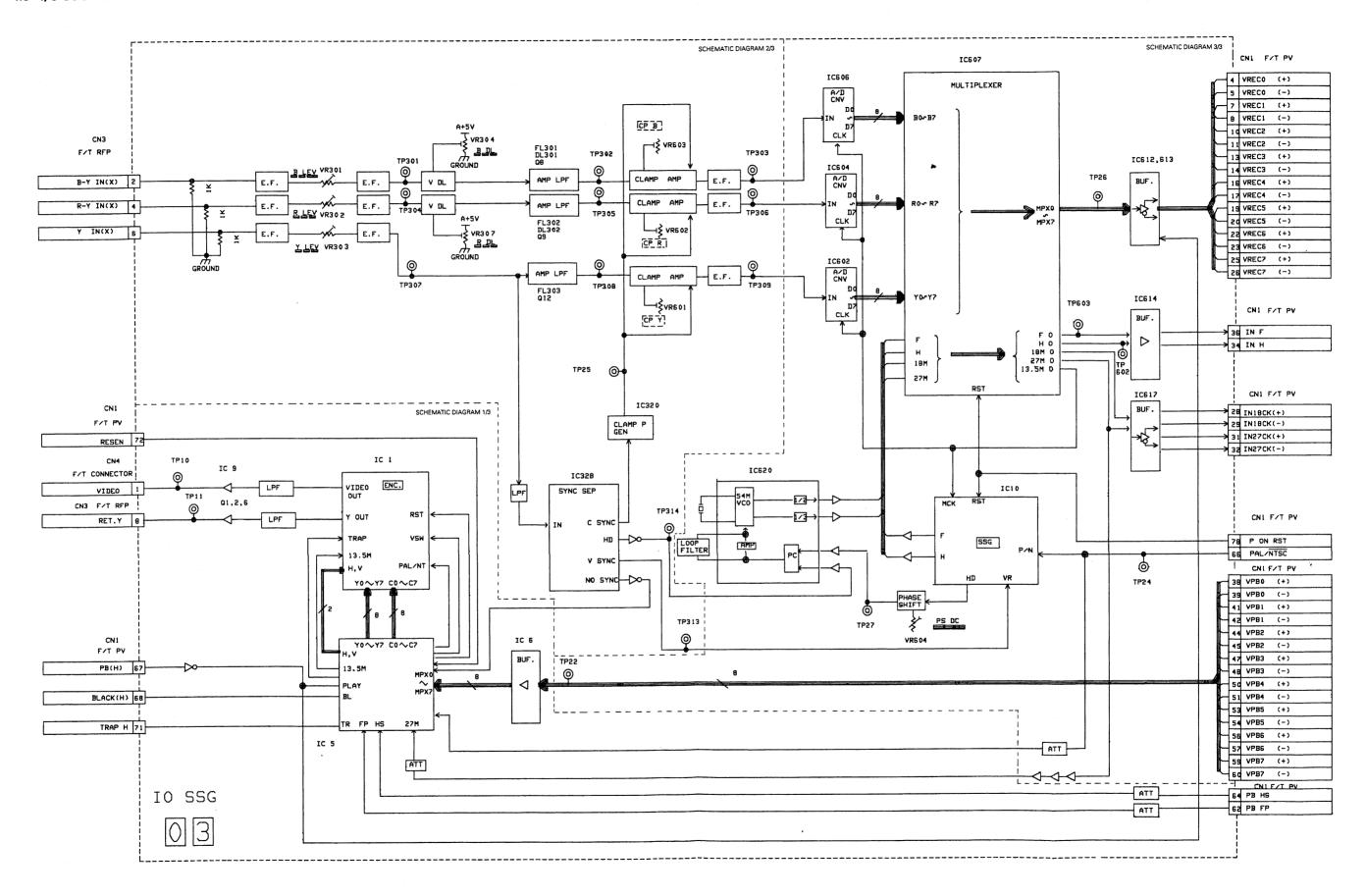
4.4 VIDEO & AUDIO BLOCK DIAGRAM



4.5 CONTROL SYSTEM BLOCK DIAGRAM

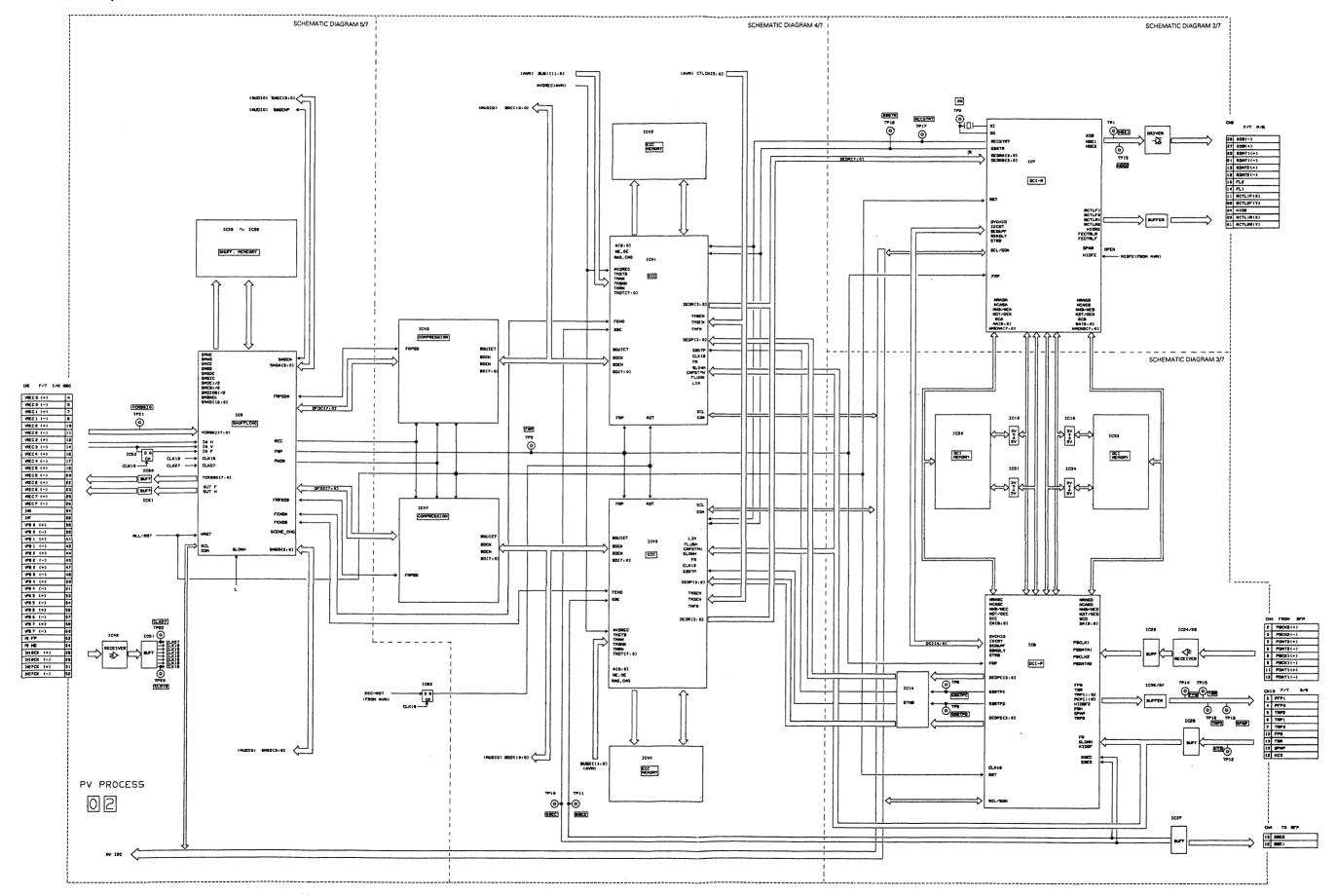


4.6 I/O SSG BLOCK DIAGRAM

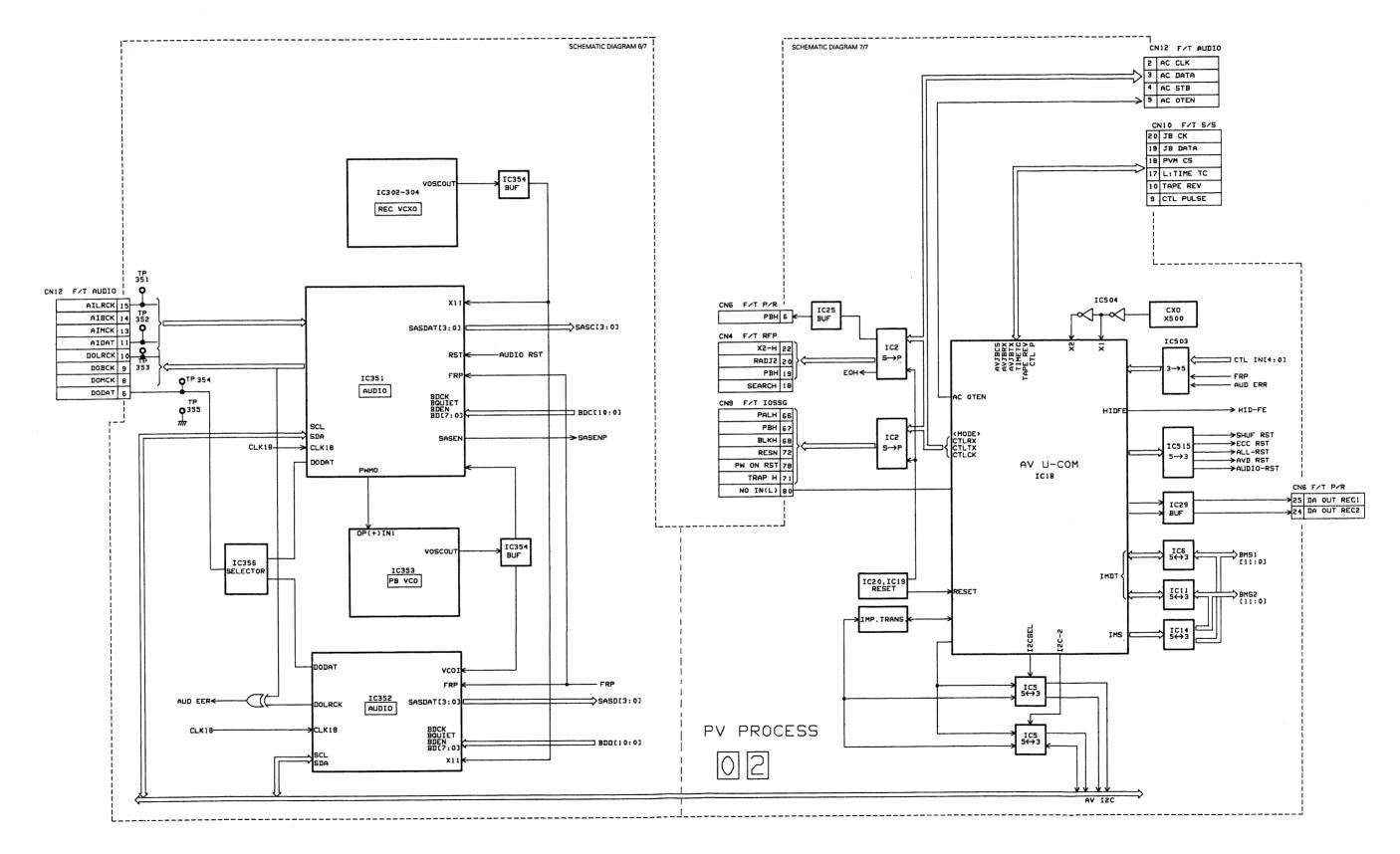


4.7 PV PROCESS BLOCK DIAGRAM

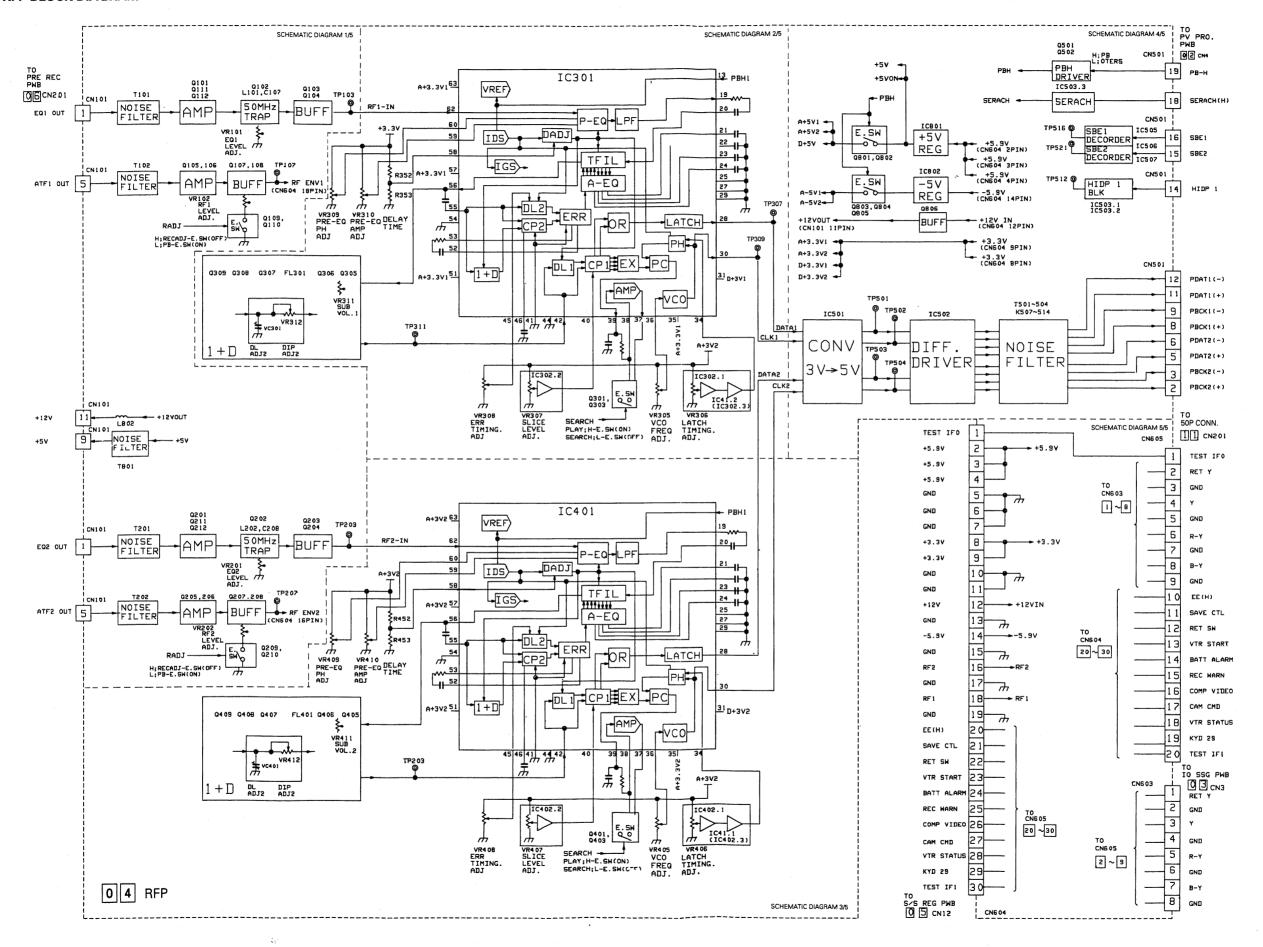
- DIAGRAM 1/2 -



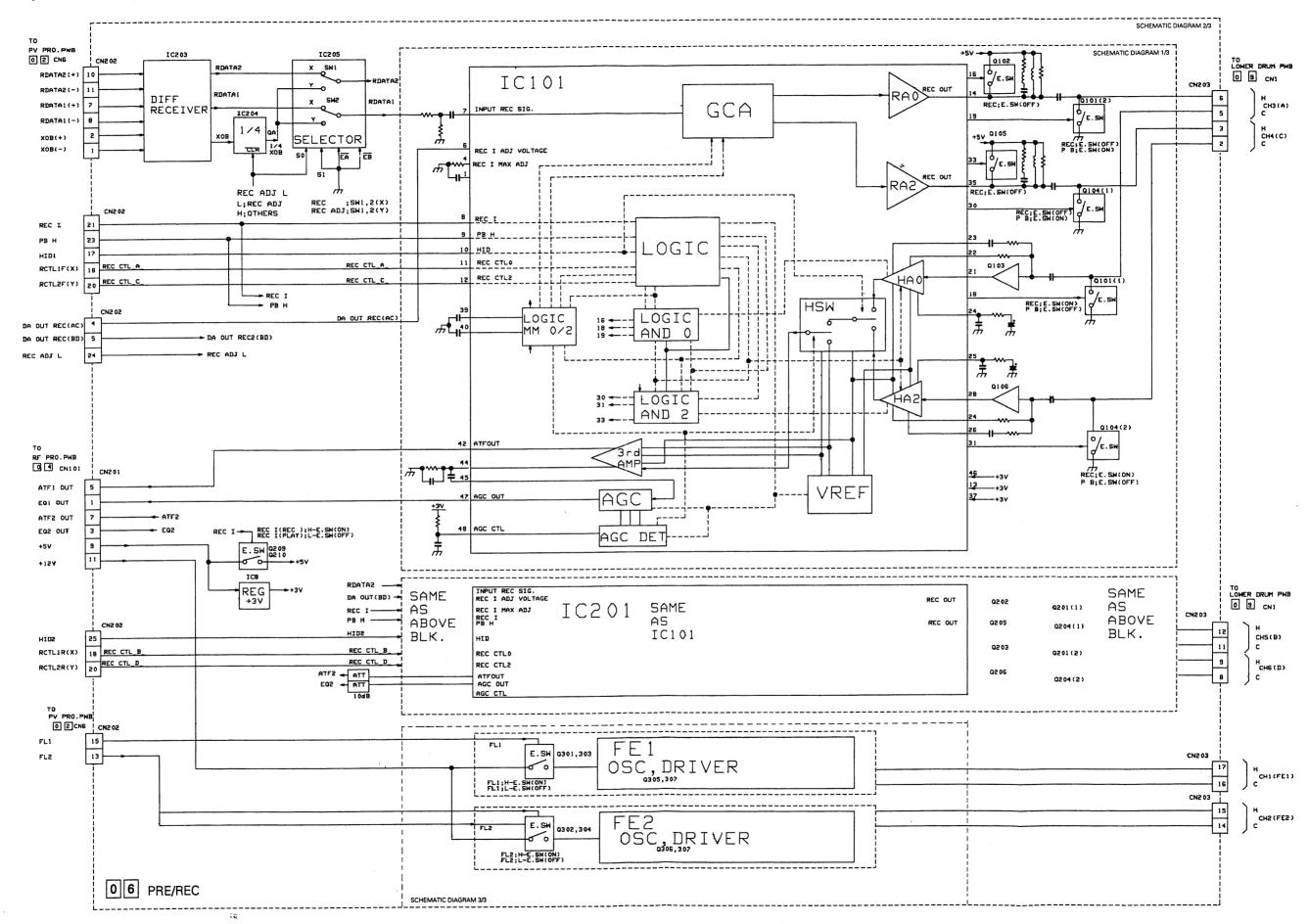
— DIAGRAM 2/2 —



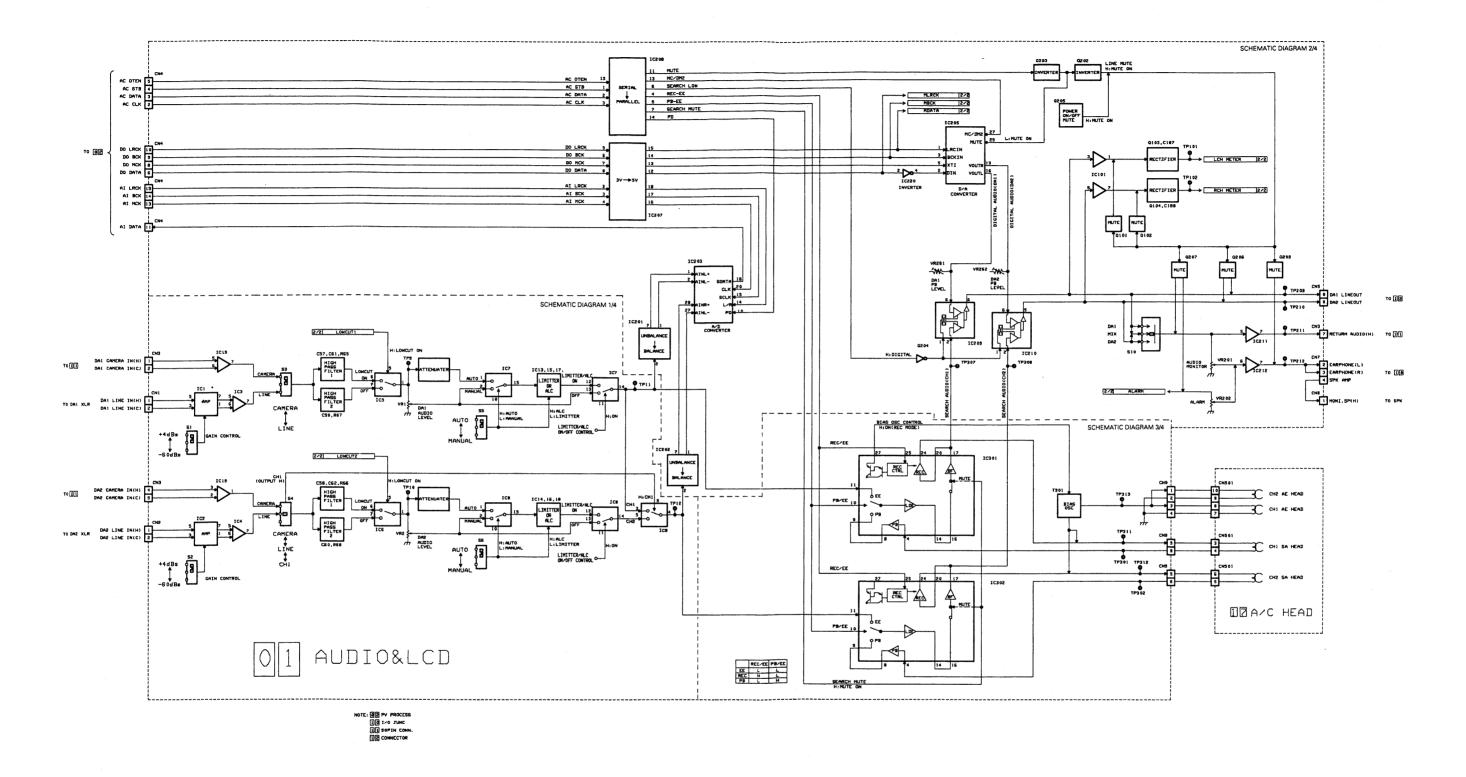
4.8 RFP BLOCK DIAGRAM



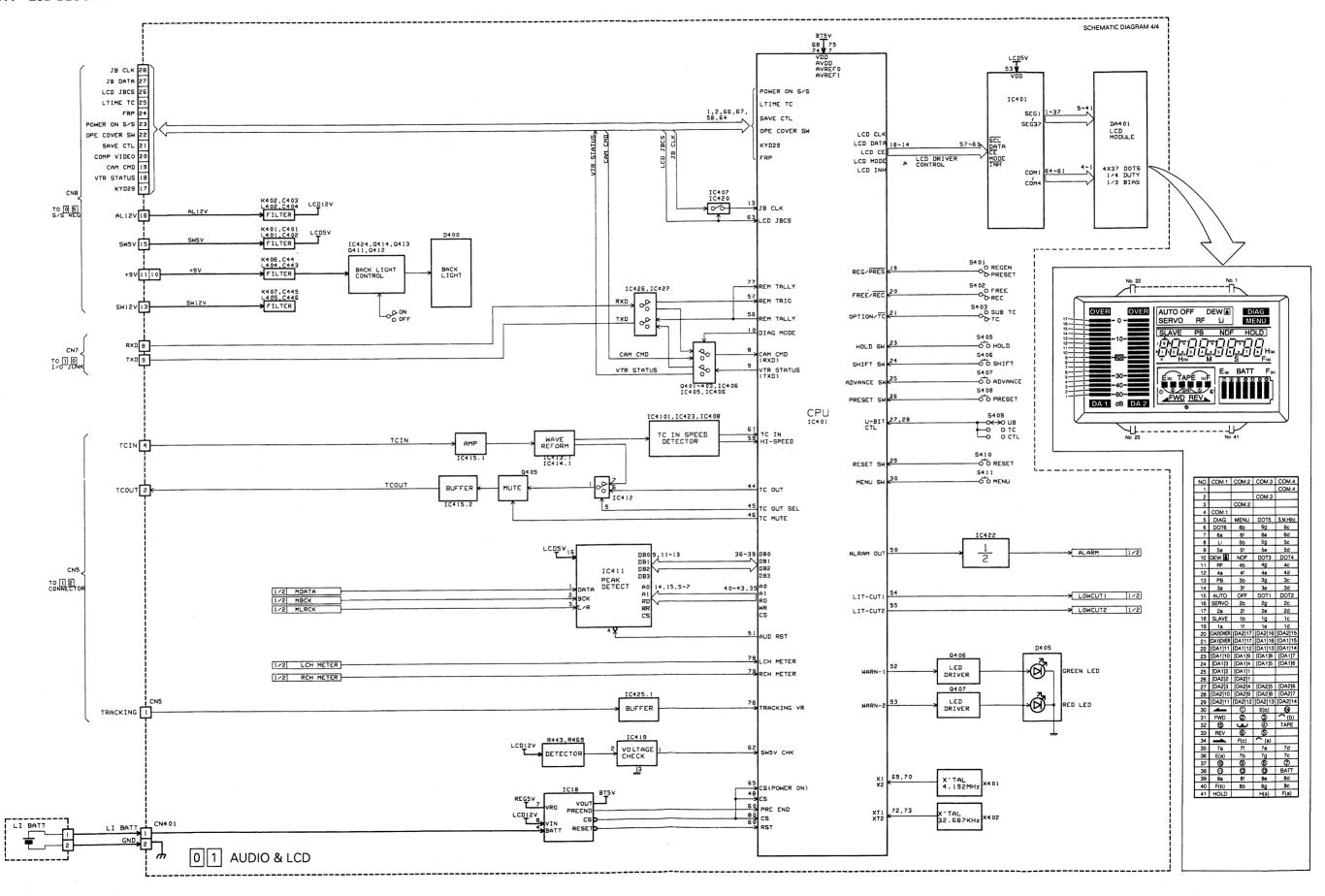
4.9 PRE/REC BLOCK DIAGRAM



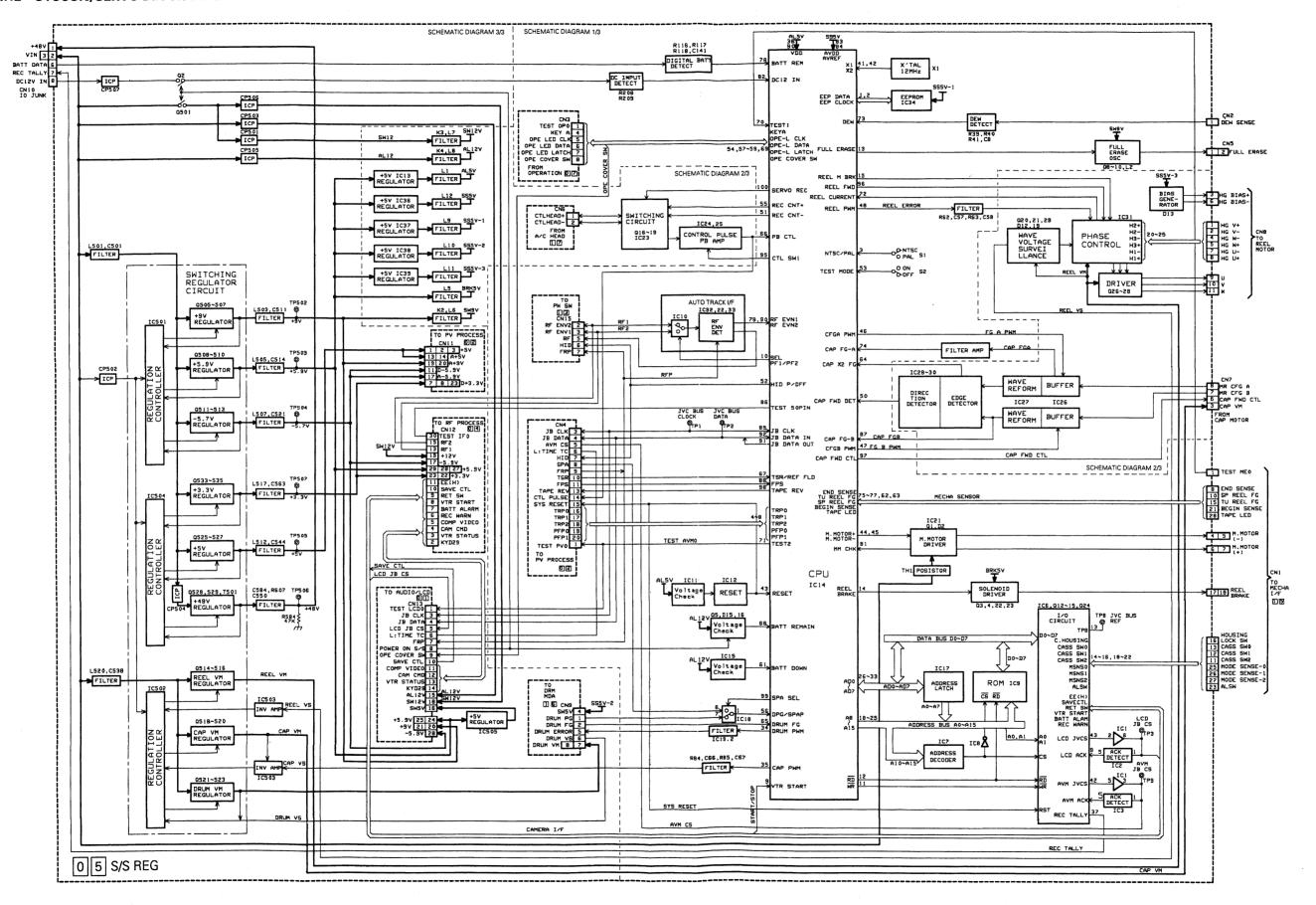
4.10 AUDIO BLOCK DIAGRAM



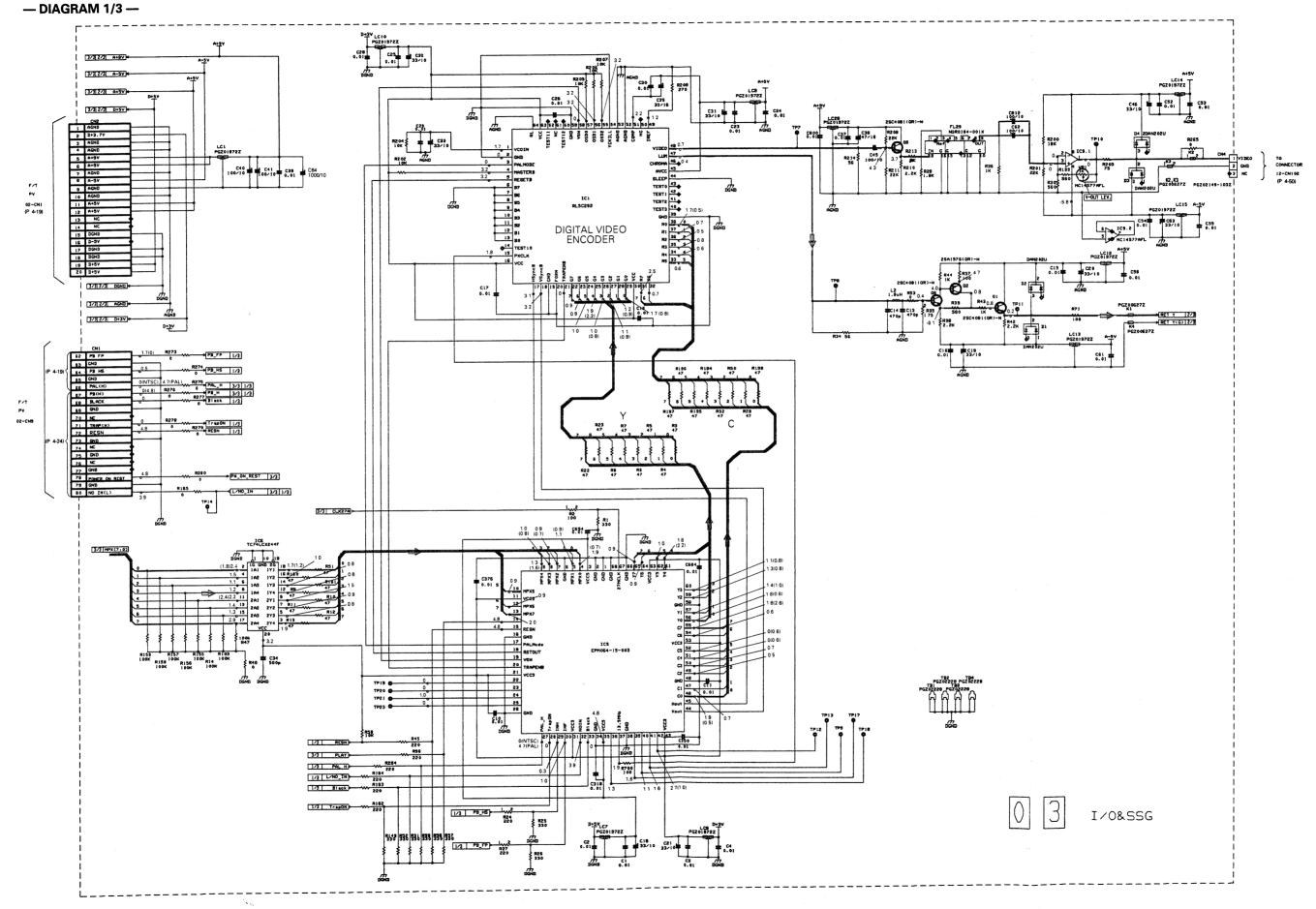
4.11 LCD BLOCK DIAGRAM



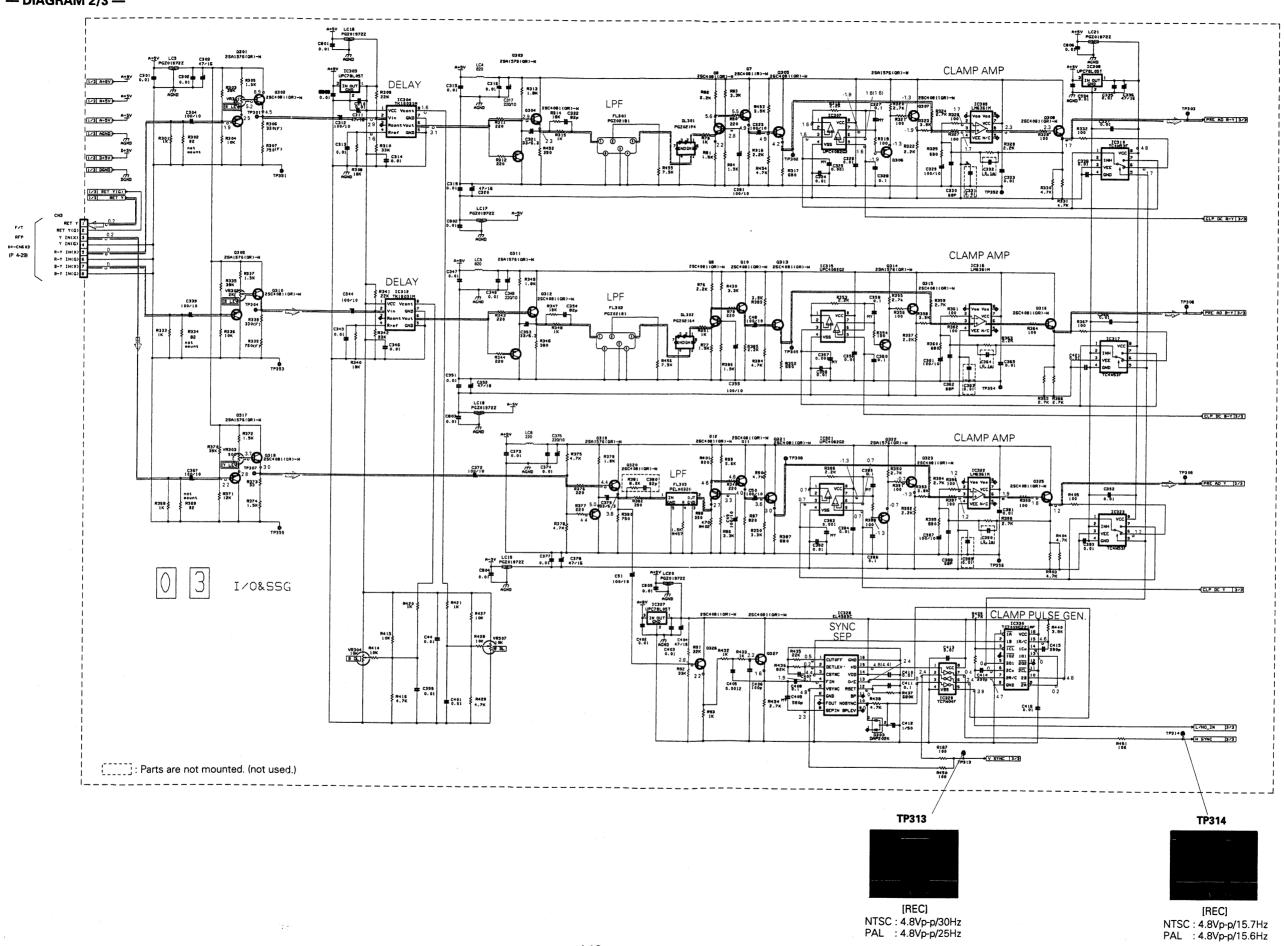
4.12 SYSCON/SERVO BLOCK DIAGRAM



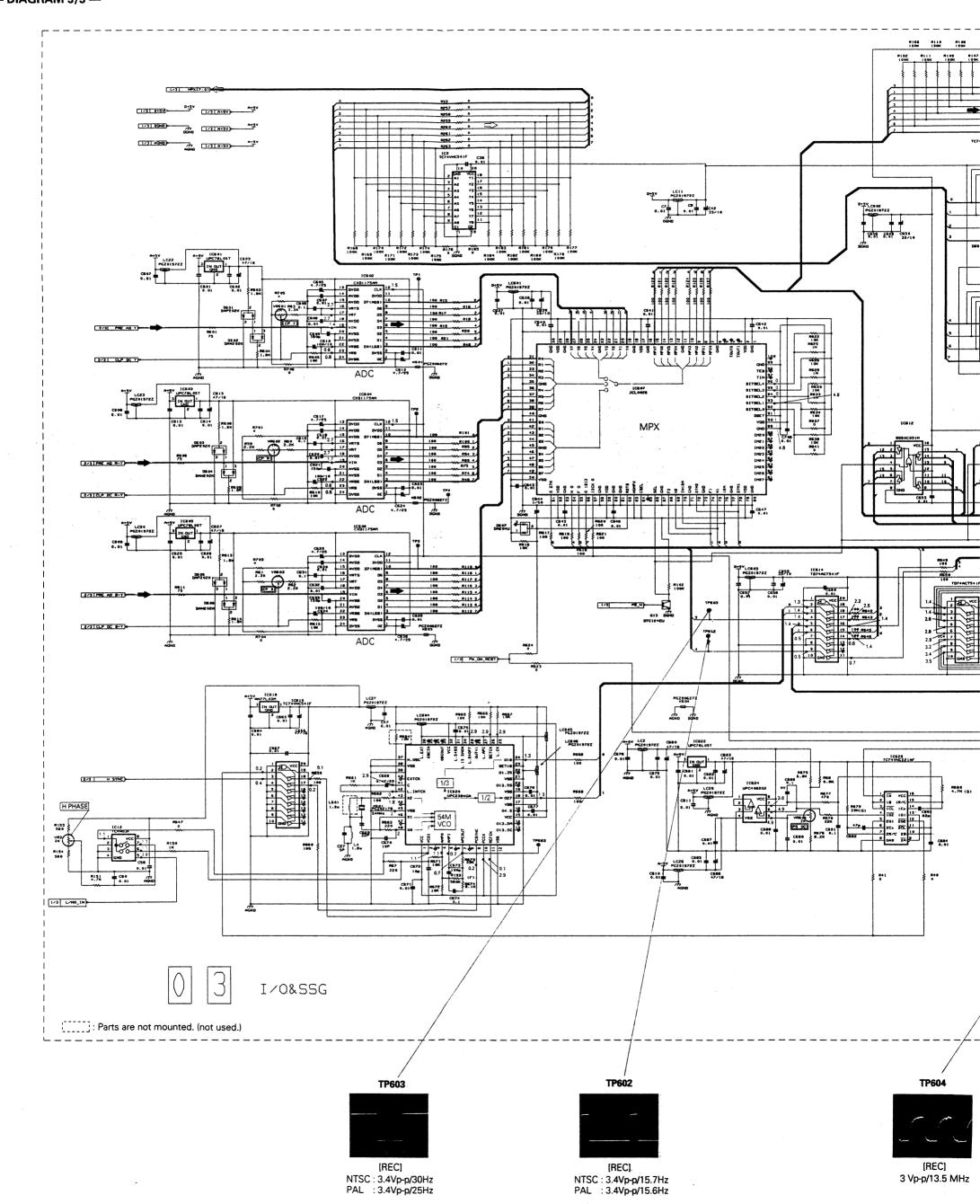
4.13 I/O SSG SCHEMATIC DIAGRAM 03

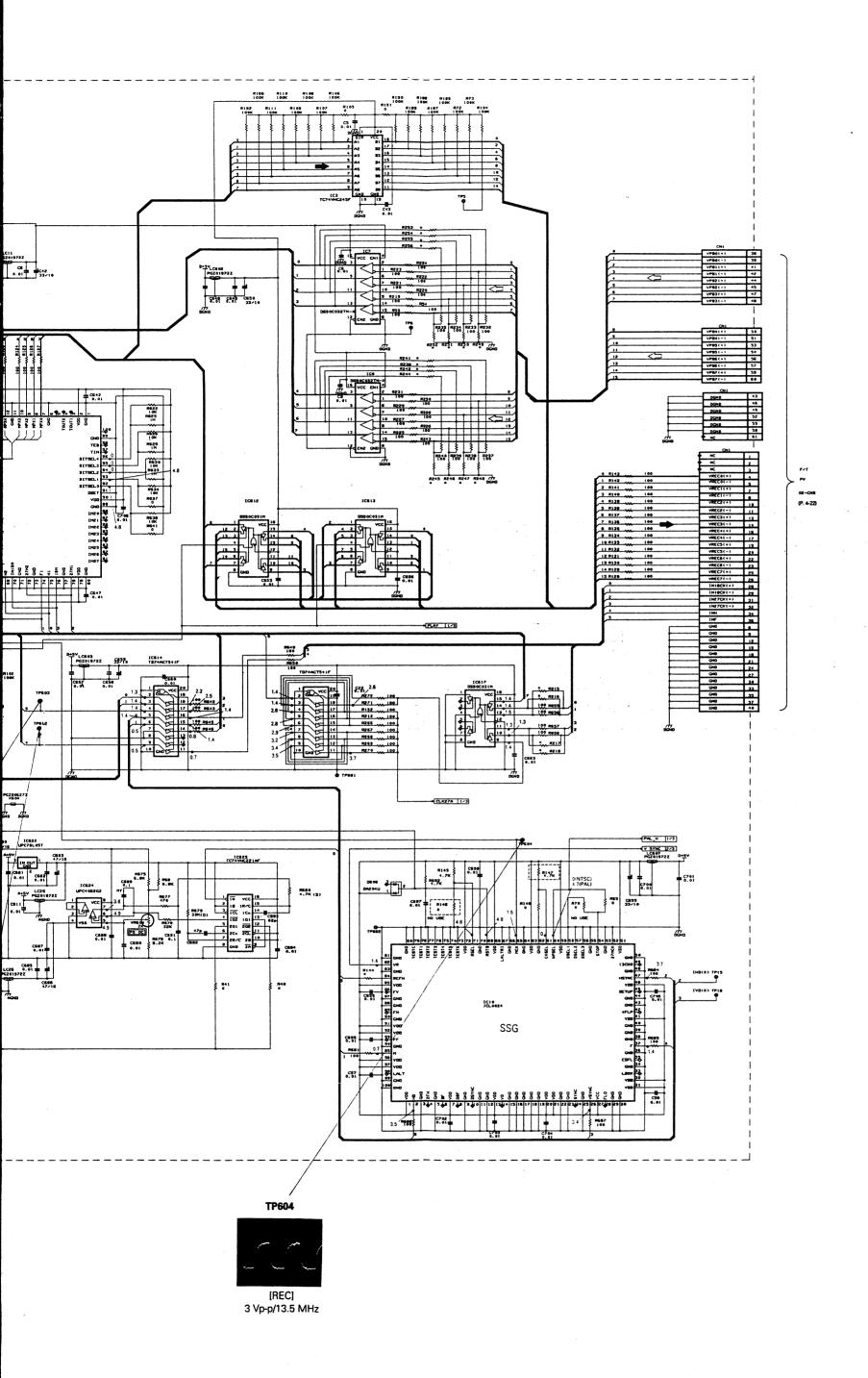




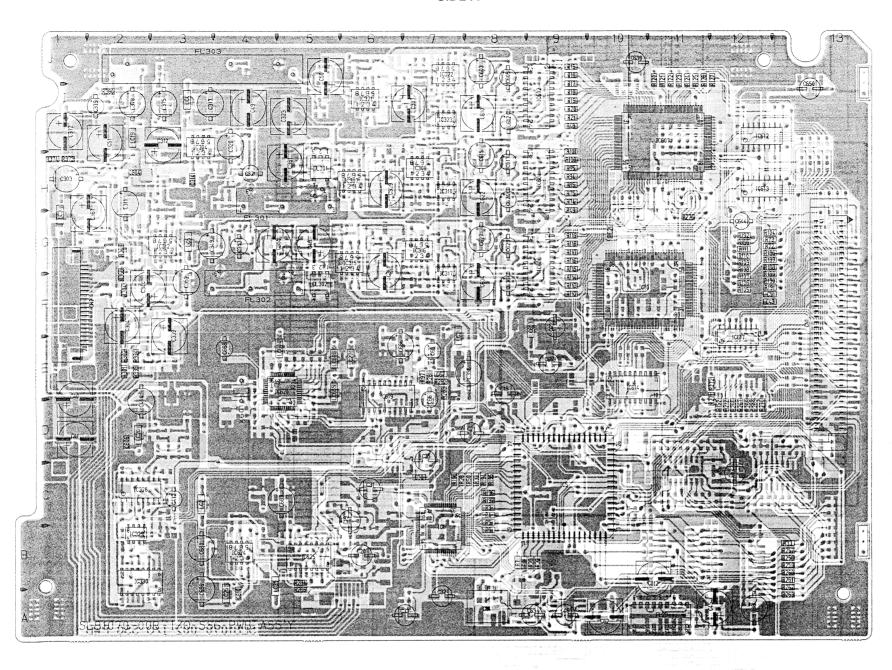


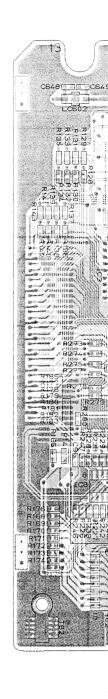
4-16





- SIDE A -

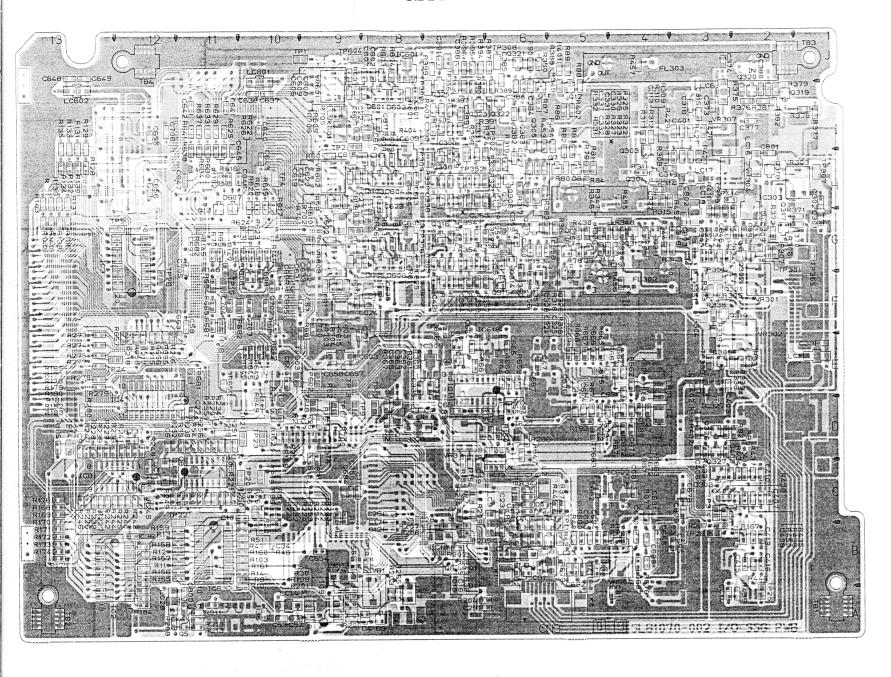




OADDRESS TABLE OF BOARD PARTS

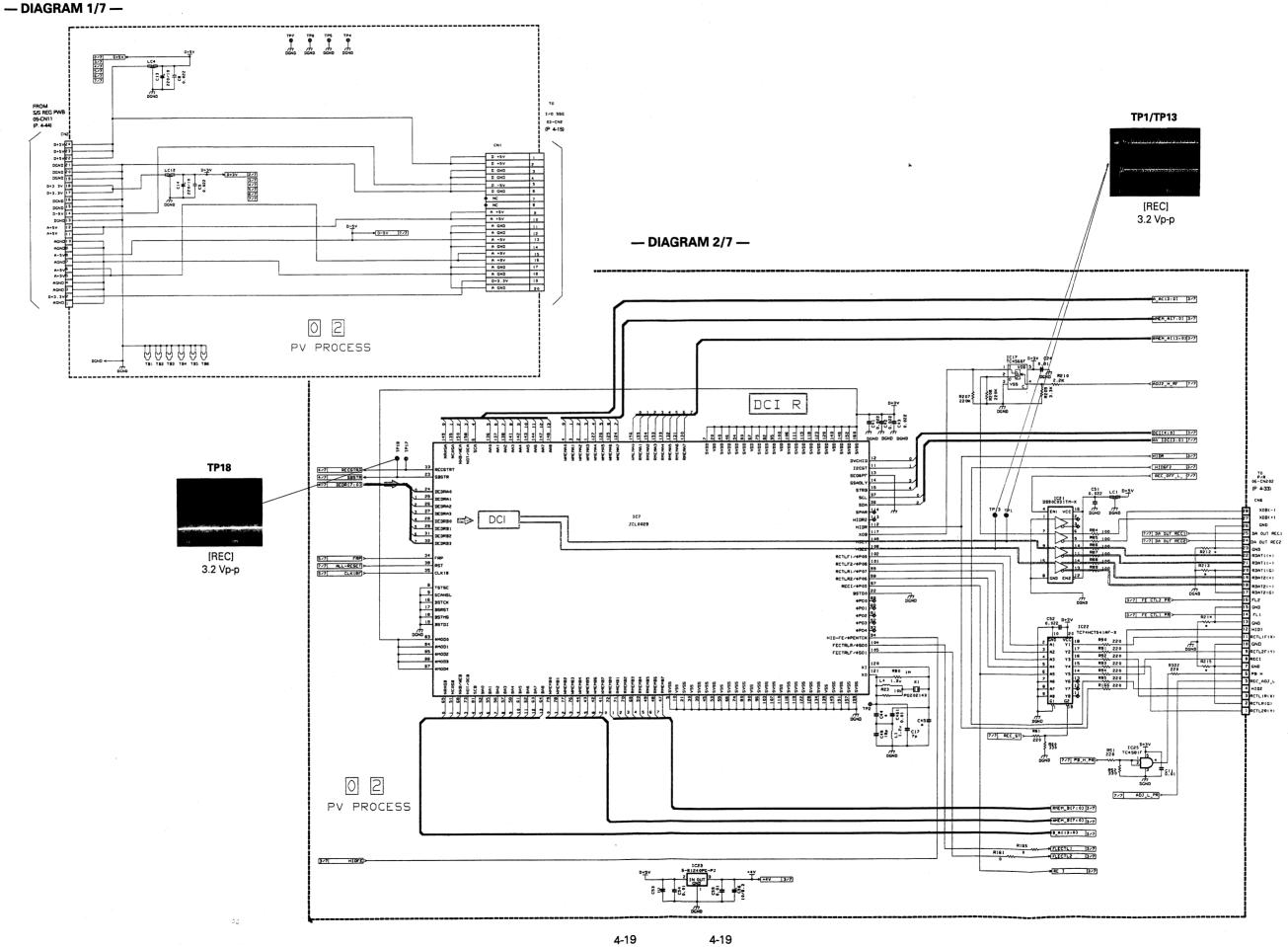
Each address may have an address error by one interva-

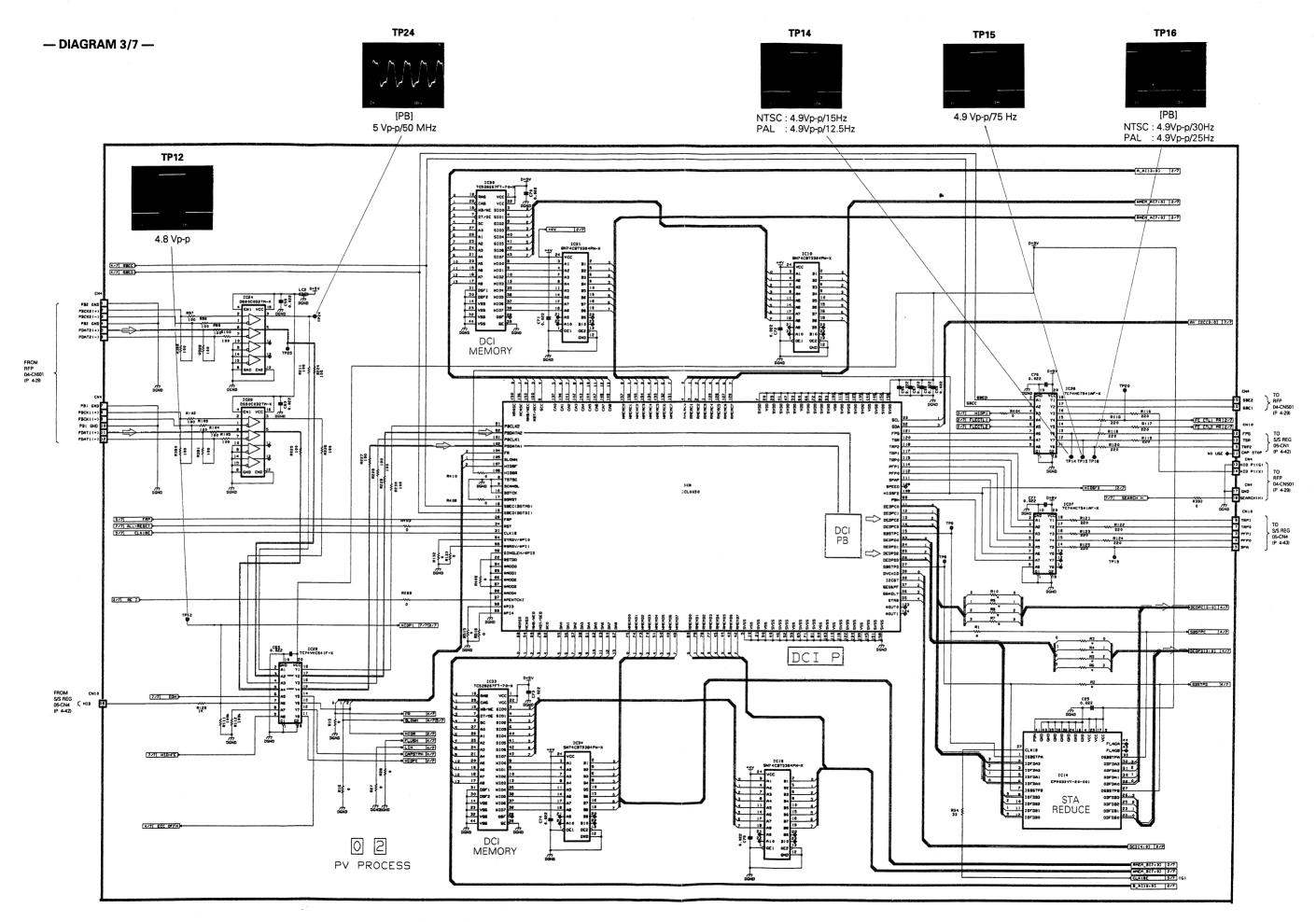


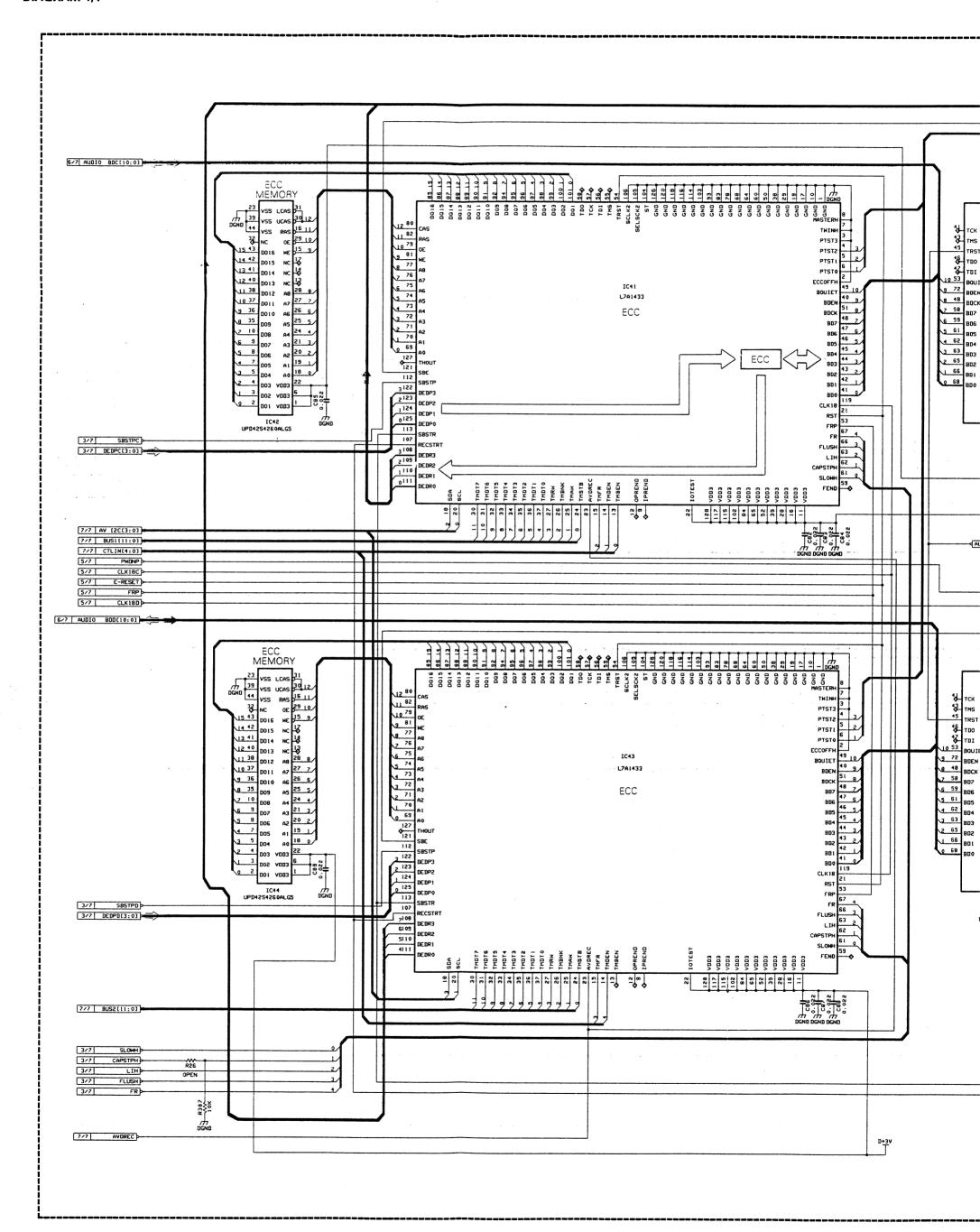


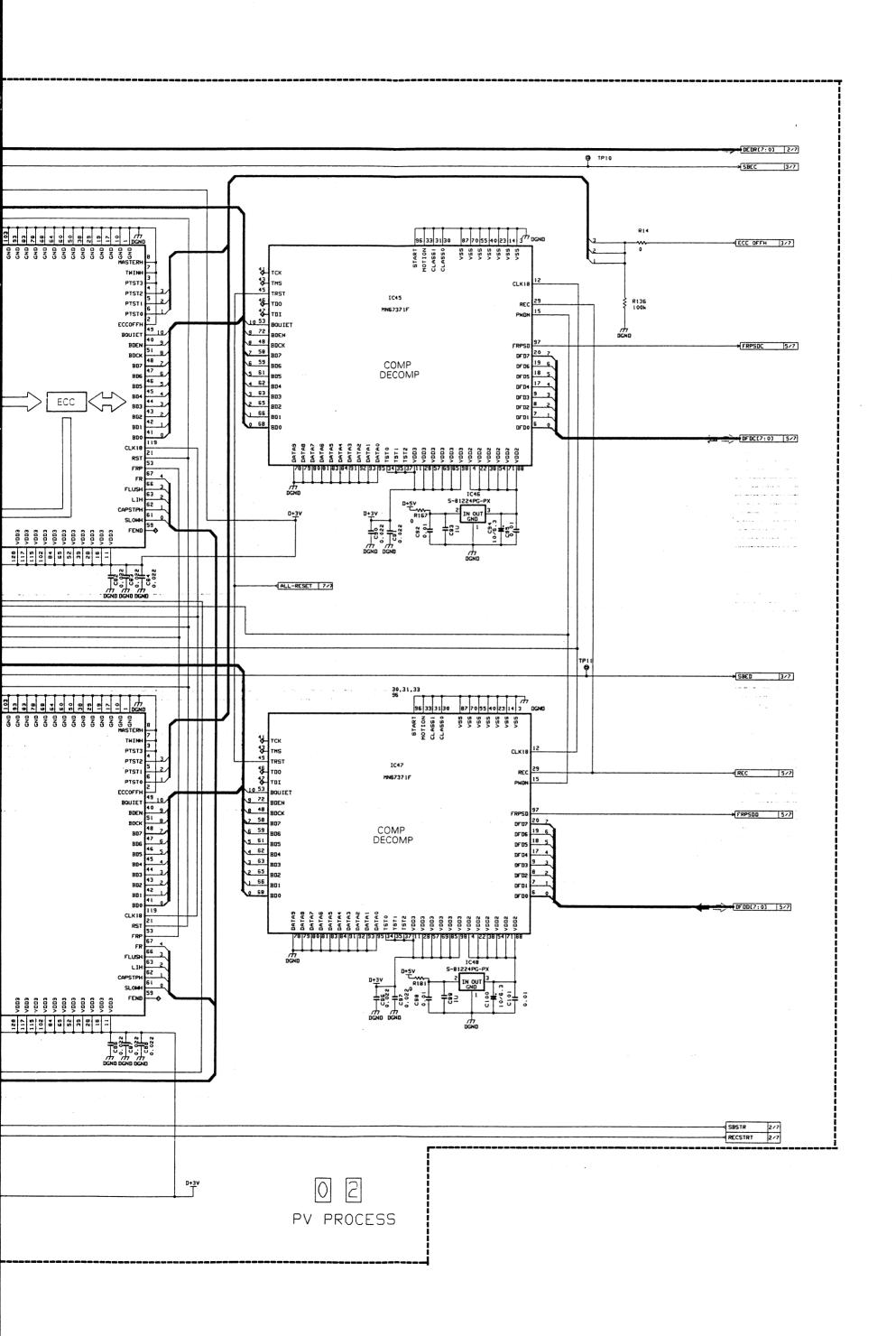
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36	B- 2C		B- 4E	C12	B- 8C	C68	A- 7F	C364	B- 7G	C614	B- 8I	C677	B- 5E	TP6	B- 12D	K601	B- 9I
37	B- 2D	R662	B- 4E	C13	B- 6C	C301	B- 1H	C365	B- 6H	C615	A- 81	C678	B- 3C	TP7	B- 7C	K602	B- 9H
38	B- 2D	R663	B- 4E	C14	B- 6C	C302	B- 1H	C366	B- 7G	C617	A- 81	C679	B- 3C	TP8	B- 6C	K603	B- 9G
39	B- 2B		B- 4E	C15	B- 6C	C303	A- 11	C367	A- 1H	C618	B- 81	C680	A- 3C	TP9	B- 8E	K604	B- 8F
40	B- 2B		B- 4F	C16	B- 6C	C304	A- 2F	C372	A- 11	C619	B- 91	C681	B- 4D	TP10	B- 8B		
50	B- 2C		B- 5F	C17	B- 8C	C309	B- 2H	C373	B- 3J	C620	B- 81	C682	B- 5D	TP11	B- 5C	TB1	B- 1B
51	B- 2C	R667	B- 5F	C18	A- 8E	C310	B- 2H	C374	B- 2J	C621	B- 8I	C683	A- 4C	TP12	B- 8E	TB2	B- 13B
52	B- 3H	R668	B- 5F	C19	A- 5C	C311	A- 2H	C375	A- 3J	C622	A- 8H	C684	B- 9D	TP13	B- 8E	TB3	B- 1J
53	B- 51	R669	B- 5F	C20	A- 6C	C312	A- 3I	C376	B- 10C	C623	B- 8H	C685	B- 3C	TP14	B- 13D	TB4	B- 12J
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55	B- 4H	R672	B- 4E	C22	B- 11E	C314	A- 31	C378	A- 2J	C625	B- 7G	C687	B- 4B	TP16	B- 11F	LC1	B- 1F
56	B- 4G	R673	B- 4E	C23	B- 6C	C315	B- 3J	C379	A- 1J	C626	B- 8H	C688	B- 4C	TP17	B- 9E	LC2	A- 3C
57	B- 4J	R674	B- 5E	C24	B- 6C	C316	B- 3J	C380	B- 2J	C627	A- 8H	C689	B- 4C	TP18	B- 9E	LC3	A- 1H
01	B- 8J	R675	B- 4C	C25	B- 7C	C317	A- 3J	C381	A- 41	C629	A- 8H	C690	B- 4C	TP19	B- 10D	LC4	A- 3J
03	B- 8J	R676	B- 4C	C26	B- 8C	C318	B- 9D	C382	B- 6J	C630	B- 8H	C691	B- 4C	TP20	B- 10D	LC5	A- 3H
04	B- 8J	R677	B- 4C	C27	B- 4E	C319	B- 31	C383	B- 6J	C631	B- 9G	C692	B- 5B	TP21	B- 10D	LC6	B- 2J
05	B- 9J	R678	B- 4B	C28	B- 7C	C320	A- 41	C384	B- 6J	C632	B- 8G	C693	B- 5C	TP22	B- 11C	LC7	B- 8E
06	B- 8I	R679	B- 5B	C29	B- 6B	C321	A- 41	C385	B- 6J	C633	B- 8G	C694	B- 5C	TP23	B- 10D	LC8	B- 7E
80	B- 81	R680	B- 5C	C30	A- 7D	C322	B- 4H	C386	B- 6J	C634	A- 8G	C695	B- 10G	TP24	B- 12F	LC9	B- 6C B- 7C
9	B- 81	R681	B- 9F	C31	A- 6D	C323	A- 4J	C387	A- 6J	C635	B- 8G	C696 C697	B- 10G	TP25	B- 2B	LC10 LC11	B- 12D
10	B- 9H	R682	B- 10G	C32	A- 7B	C324	B- 6H	C388 C389	B- 7J	C636 C637	A- 8G	C698	B- 10G B- 10G	TP26 TP27	B- 12G B- 6D	LC12	B- 6C
11	B- 8G	R684	B- 11G	C33	A- 6B	C325	B- 5H		B- 7J	C638	B- 10J	C699	A- 9F	TP28	B- 3C	LC12	B- 5B
13	B- 8H	R685	B- 11G	C34	B- 10C	C326	B- 51	C390	B- 71	C639	B- 10J	C700	B- 9F	TP301		LC13	B- 10B
14	B- 8H	R686	B- 10F	C35	A- 7D	C327	B- 61	C391	B- 7J B- 7J	C640	A- 10J B- 10I	C701	B- 8F	TP302	B- 2G	LC14 LC15	B- 9B
15	B- 9G	R687	B- 11F	C36	B- 12C	C328 C329	B- 61 A- 6H	C392 C393	B- 71	C641	B- 11J	C702	B- 10G		B- 7I	LC16	B- 2I
16	B- 101	R700	B- 9D	C37		C330	B- 71	C399	B- 3H	C642	B- 11J	C703	B- 10G	TP304		LC17	B- 3I
17	B- 10H B- 10H	R701 R702	B- 9H B- 9H	C38 C39	A- 12B B- 1F	C331	B- 71	C401	B- 31	C643	B- 101	C704	B- 10G	TP305		LC18	B- 3H
18 19	B- 10H	R702	B- 9G	C40	A- 1E	C332	B- 7H	C402	B- 3E	C644	A- 12H	C705	B- 11G	TP306		LC19	A- 2I
20	B- 10H	R703	B- 9G	C41	A- 1D	C333	B- 61	C403	B- 2E	C645	B- 101	C706	B- 111	TP307		LC20	A- 2D
21	A- 10H	R705	B- 9J	C42	A- 12D	C334	B- 7E	C404	A- 2E	C646	B- 101	C800	B- 11B	TP308		LC21	A- 7F
22	B- 111	R706	B- 9J	C43	A- 12G	C335	B- 7E	C405	B- 2D	C647	B- 111	C801	B- 2I	TP309		LC22	B- 8I
23	B- 10H	11700	5 30	C44	B- 2H	C336	A- 7E	C406	B- 3D	C648	B- 13J	C802	B- 3H	TP313		LC23	B- 8H
24	B- 10H	VR1	B- 8B	C45	A- 11B	C337	B- 71	C407	B- 2C	C649	B- 13J	C803	B- 3H	TP314		LC24	B- 8G
25	B- 111	VR3	B- 7D	C46	A- 9B	C338	B- 7H	C408	B- 2C	C650	A- 13J	C804	A- 21	TP351		LC25	A- 4B
26	B- 111	VR301		C47	B- 5F	C339	A- 3F	C409	B- 2C	C654	B- 9C	C805	A- 2D	TP352		LC26	A- 3B
29	B- 111	VR302		C48	A- 5H	C344	A- 2G	C410	B- 2D	C655	B- 12I	C806	B- 7F	TP353	B- 3F	LC27	A- 5F
30	B- 111	VR303		C49	A- 4J	C345	B- 3G	C411	B- 2D	C656	B- 12H	C807	B- 8I	TP354	B- 7H	LC28	B- 11B
33	B- 111	VR304		C50	A- 5J	C346	B- 2H	C412	A- 3C	C657	B- 9F	C808	B- 8H	TP355	B- 1G	LC601	B- 10J
34	B- 111	VR307		C51	A- 21	C347	B- 3G	C413	B- 2C	C658	B- 9F	C809	B- 8G	TP356	B- 7J	LC602	B- 13J
37	B- 111	VR601		C52	B- 9B	C348	B- 3H	C414	B- 2B	C659	A- 9F	C810	A- 4B	TP602		LC603	B- 9F
38	B- 111	VR602	B- 9I	C53	B- 10B	C349	A- 3H	C415	B- 2B	C660	B- 10E	C811	B- 4B	TP603			A- 4F
41	B- 111	VR603	B- 9G	C54	B- 9B	C350	B 9D	C416	B- 2B	C663	B- 11F	C812	A- 10B	TP604		LC605	
42	B- 10F	VR604	B- 4B	C55	B- 8B	C351	B- 3G	C421	B- 7G	C664	B- 7F				B- 11E		A- 5F
43	B- 10F			C56	B- 6C	C352	A- 3G	C601	B- 7J	C665	B- 6F	L2	B- 5D		B- 10G	LC607	A- 8F
45	B- 10F	C1	B- 8E	C57	B- 9G	C353	A- 4H	C602	B- 8J	C666	A- 6F	L4	B- 3E	TP683	B- 5D		
46	B- 10F	C2	B- 8E	C58	B- 11F	C354	B- 4G	C603	A- 8J	C667	B- 6E	L601	B- 3E			FL29	A- 11B
47	B- 6D	C3	B- 7E	C59	B- 6D	C355	A- 4H	C605	A- 8J	C668	A- 3F		1	CN1	A- 13F	FL301	A- 4H
49	B- 10E	C4	B- 7E	C60	B- 6D	C356	B- 6G	C606	B- 9J	C669	B- 4E	DL301		CN2	A- 1G	FL302	A- 3G
50	B- 11E	C5	A- 12G	C61	B- 5B	C357	B- 5G	C607	B- 8J	C670	B- 4D	DL302	A- 5G	CN3	B- 5B	FL303	A- 2J
55	B- 12F	C6	B- 11D	C62	A- 10B	C358	B- 5G	C608	B- 8J	C671	B- 4E	TD4	201	CN4	A- 8A	VC04	A 45
56	B- 12F	C7	B- 11D	C63	A- 8B	C359	B- 6H	C609	B- 8J	C672	B- 4D	TP1	B- 9J	174	D 00	X601	A- 4E
57	B- 12F	C8	B- 11D	C64	B- 6E	C360	B- 6G	C610	A- 8J	C673	B- 4E	TP2	B- 81	K1	B- 6B		
58	B- 12F	C9	B- 13D	C65	B- 7E	C361	A- 6G	C611	B- 81	C674	B- 5E	TP3	B- 8H	K2	B- 8B		
559	B- 6E	C10	B- 10C	C66	A- 7E	C362	B- 7G	C612	A- 8I	C675	B- 4E	TP4	B- 101	КЗ	B- 8B		1

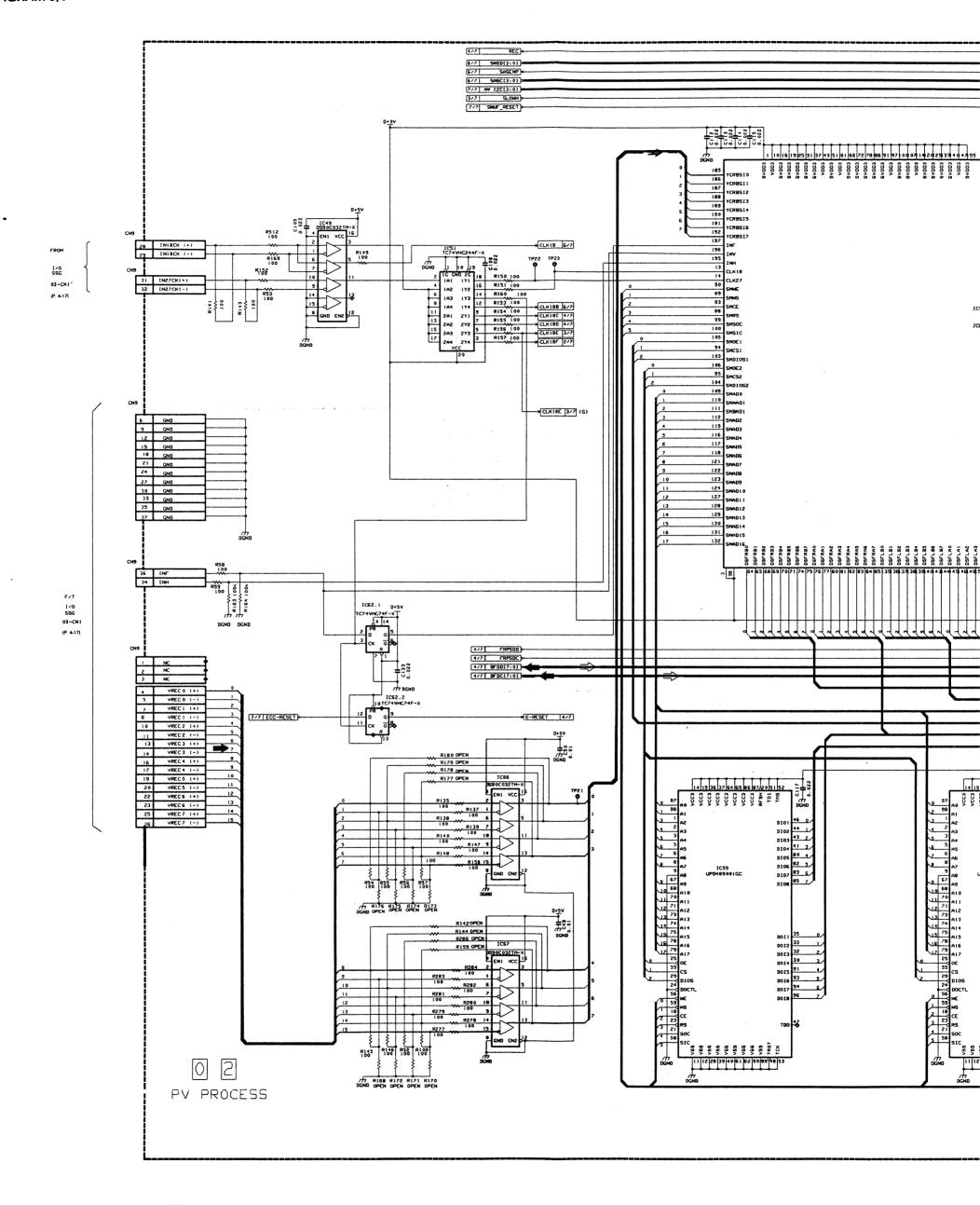
4.15 PV PROCESS SCHEMATIC DIAGRAM 02

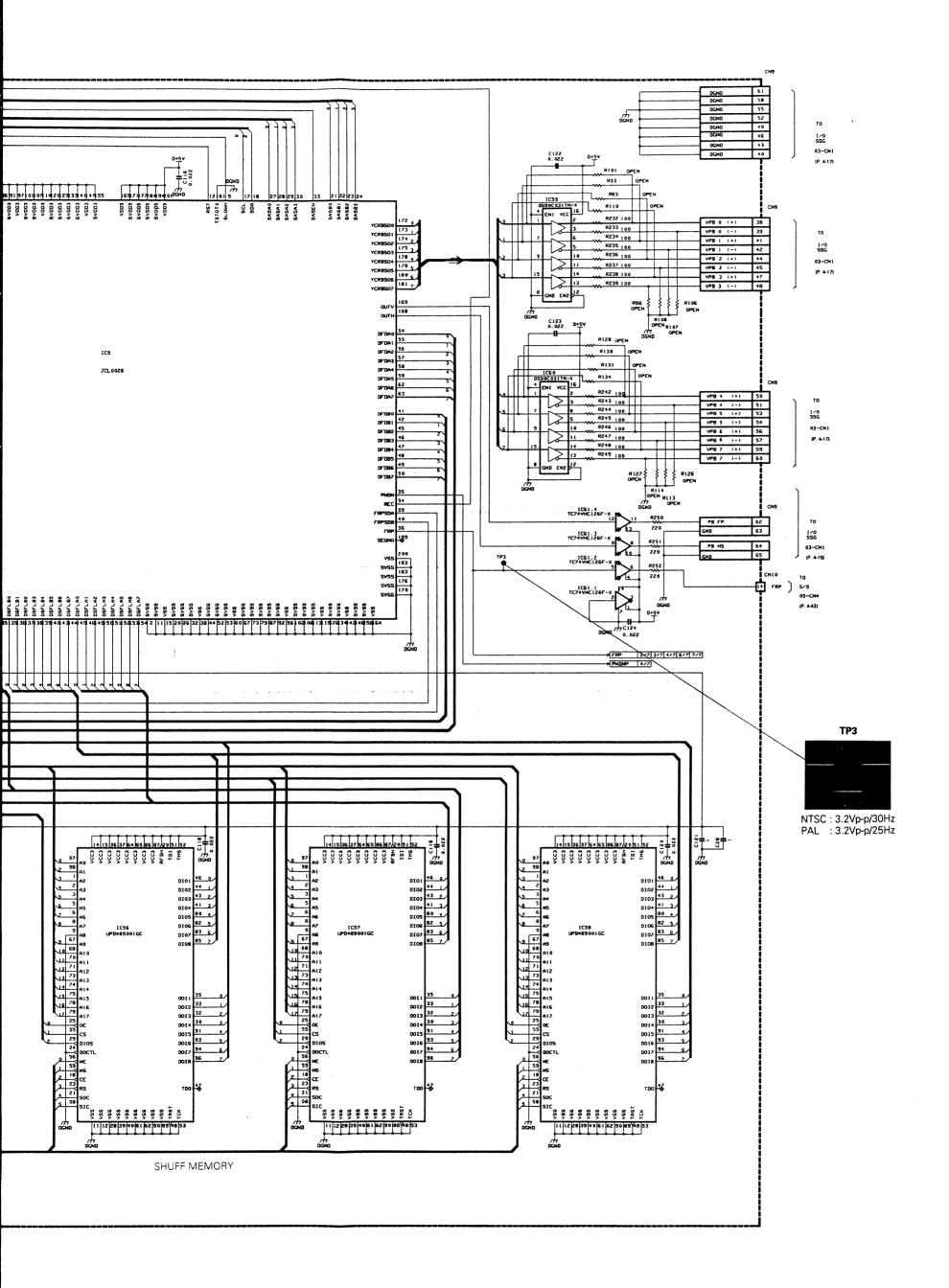


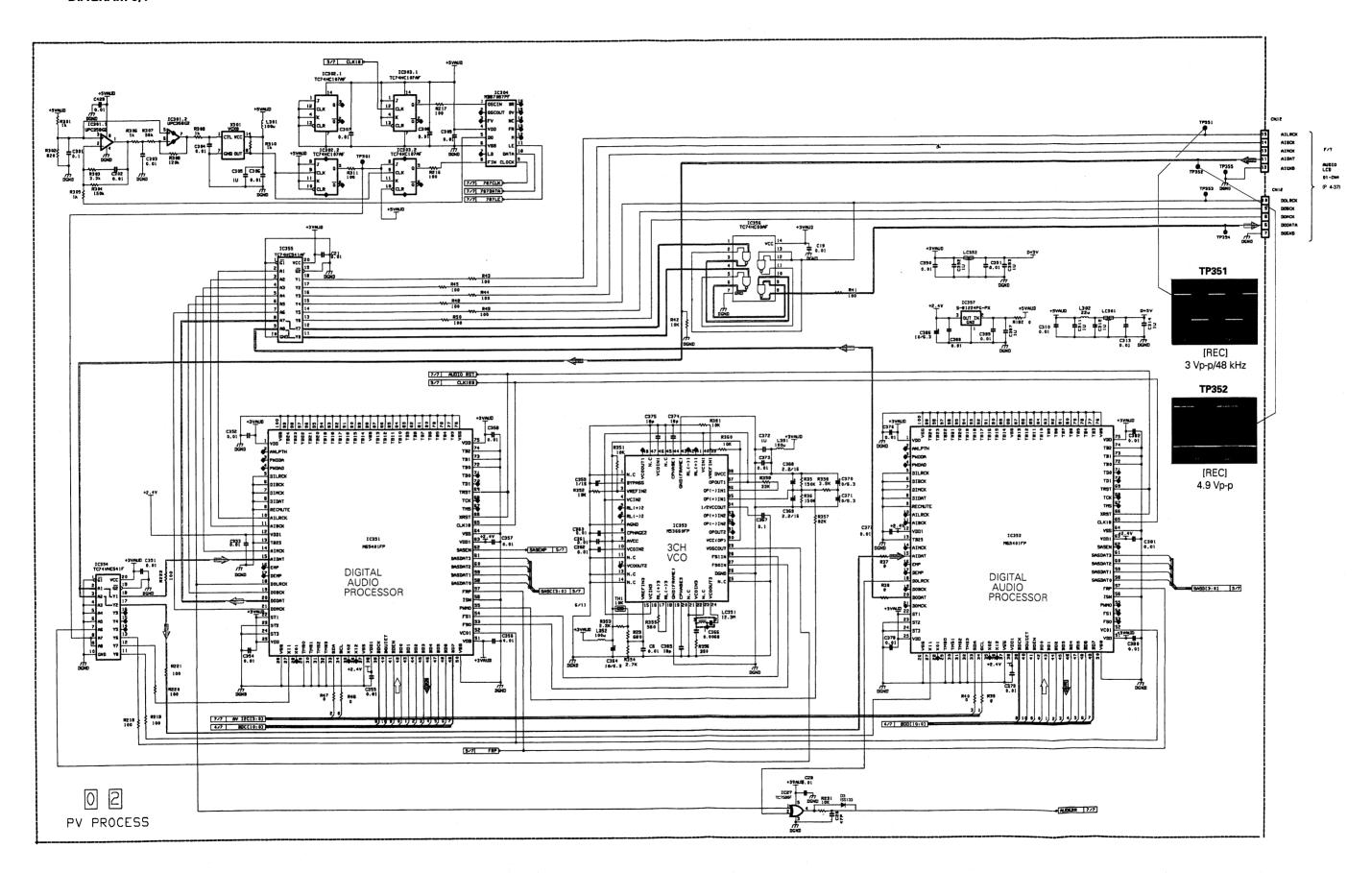




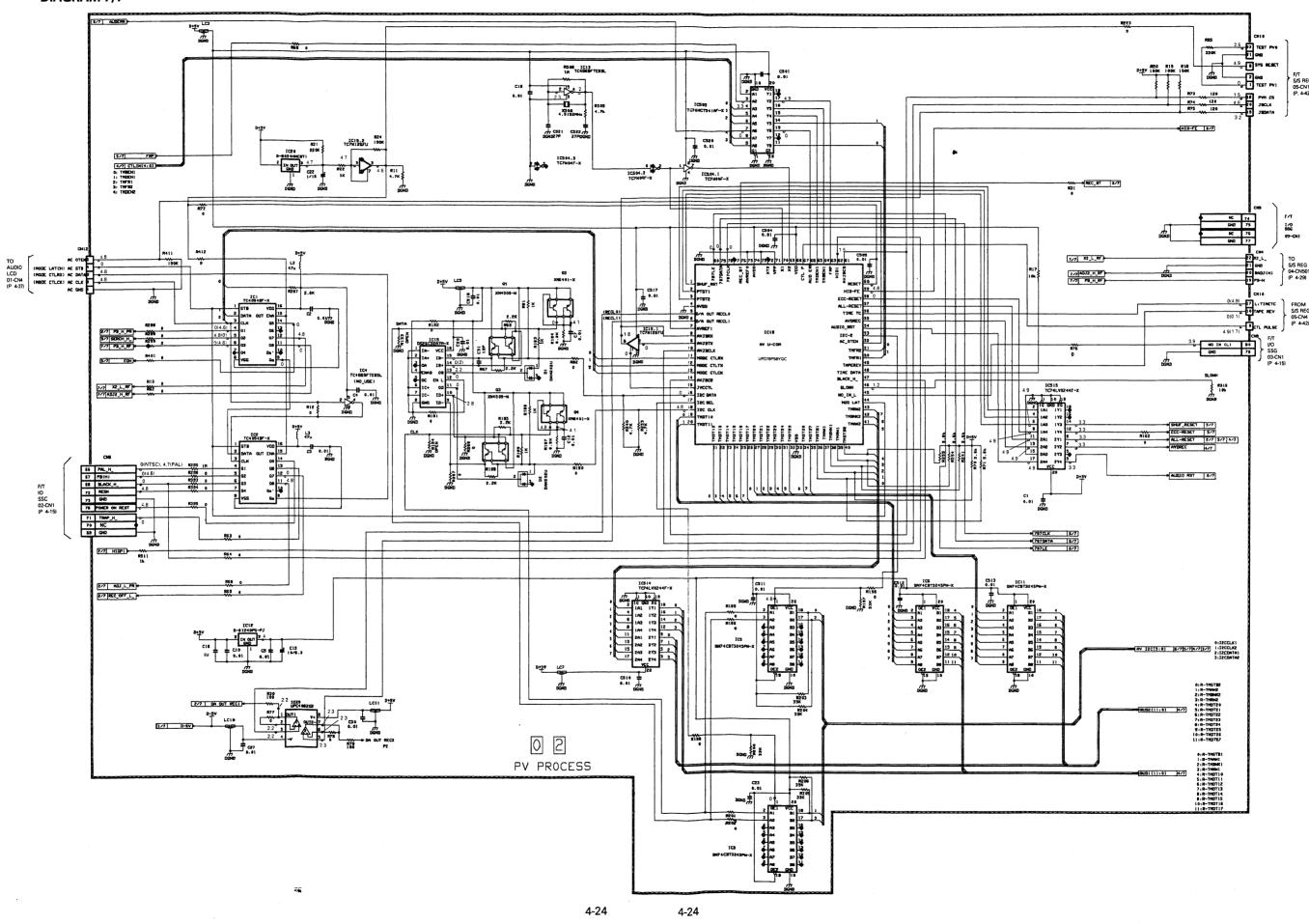


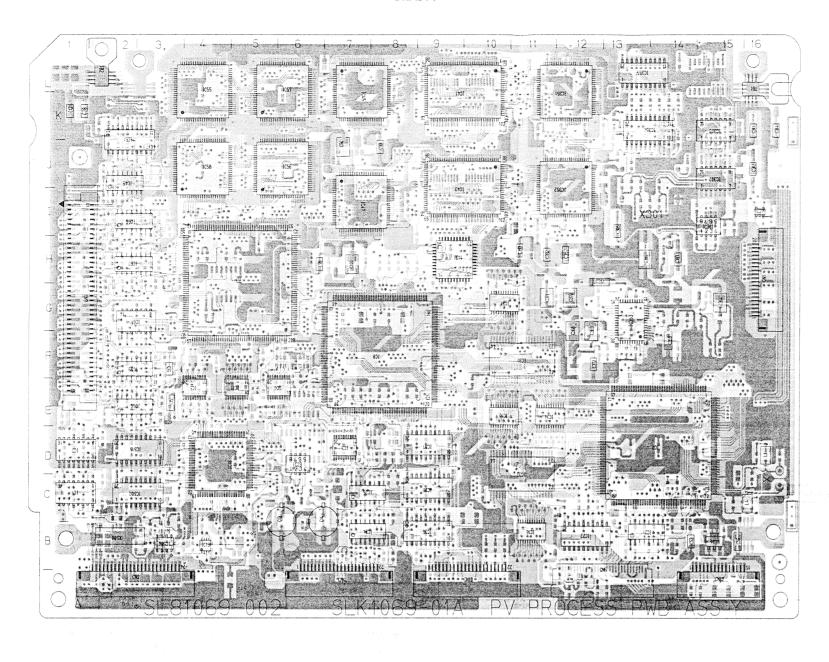


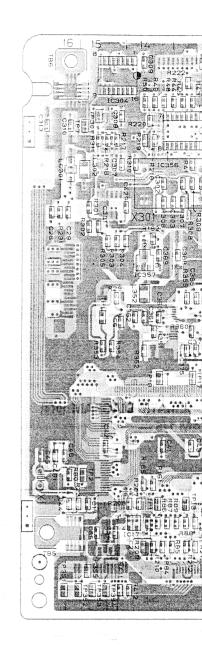




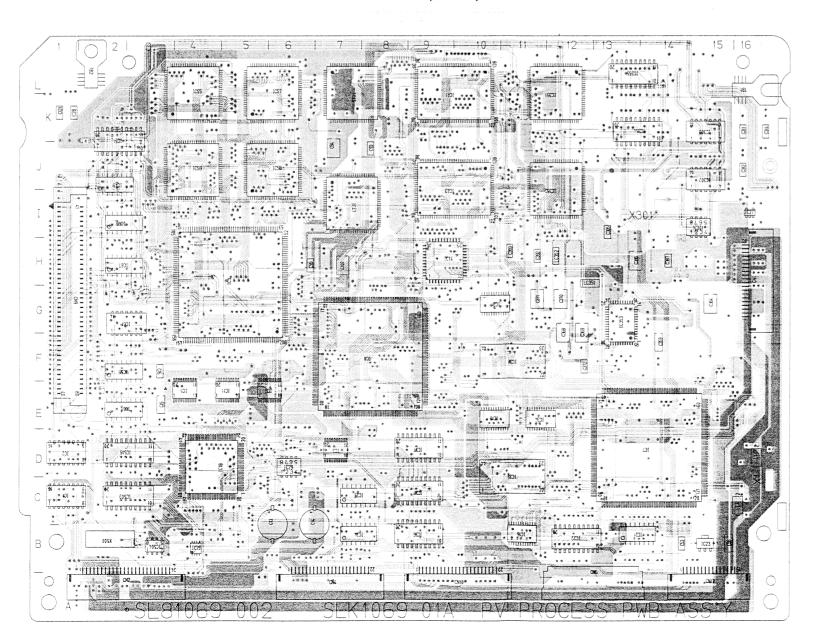
— DIAGRAM 7/7 —

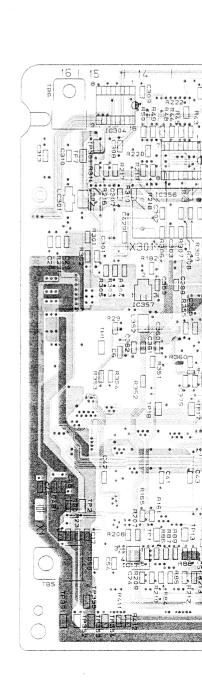


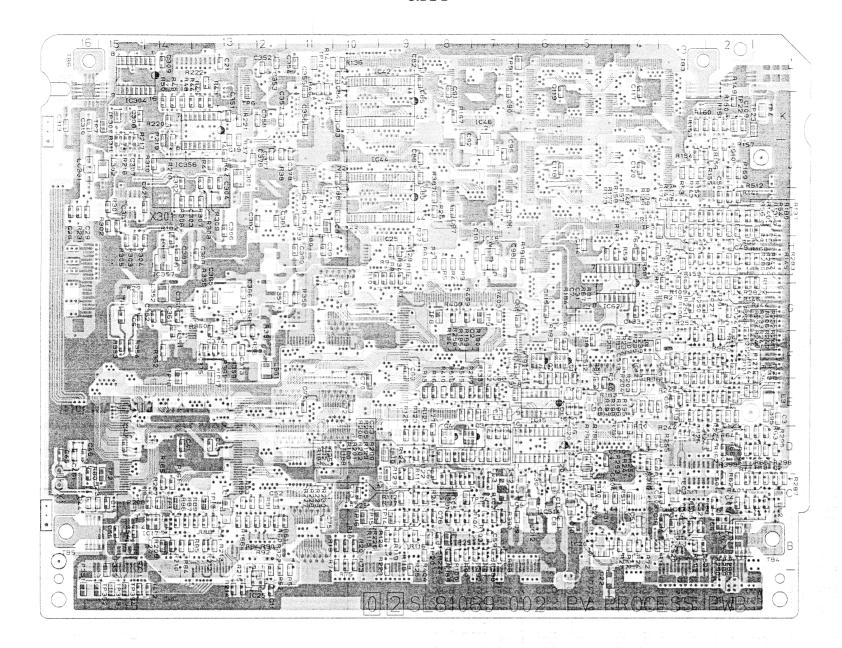




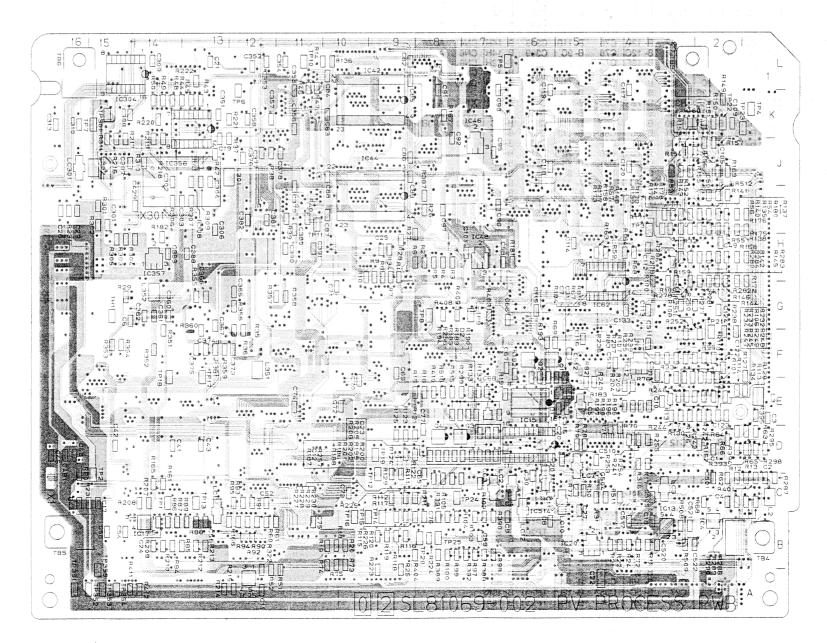
- INNER PATTERN (SIDE A) -





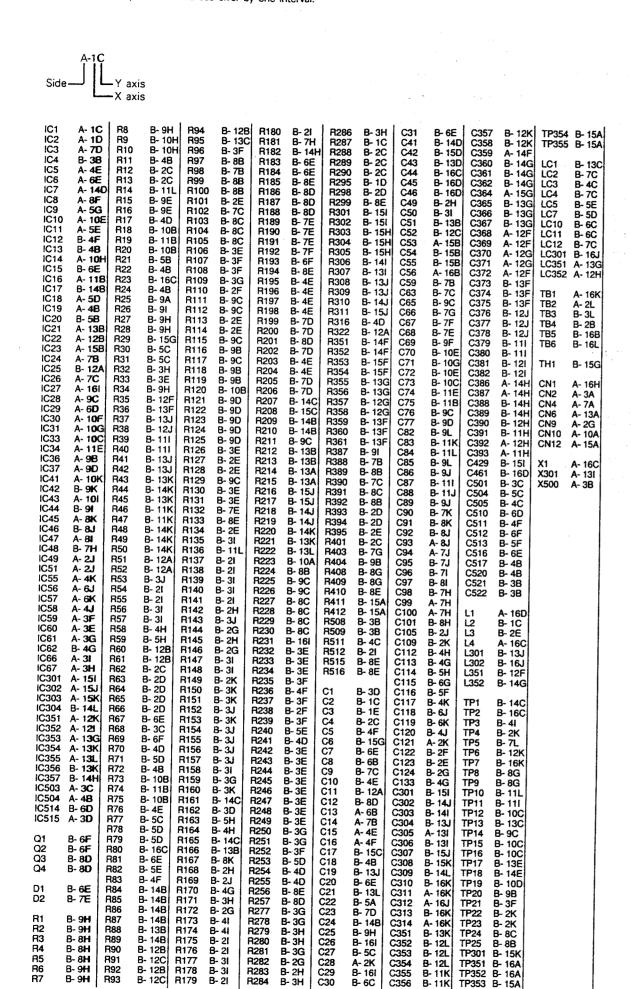


- INNER PATTERN (SIDE B) -



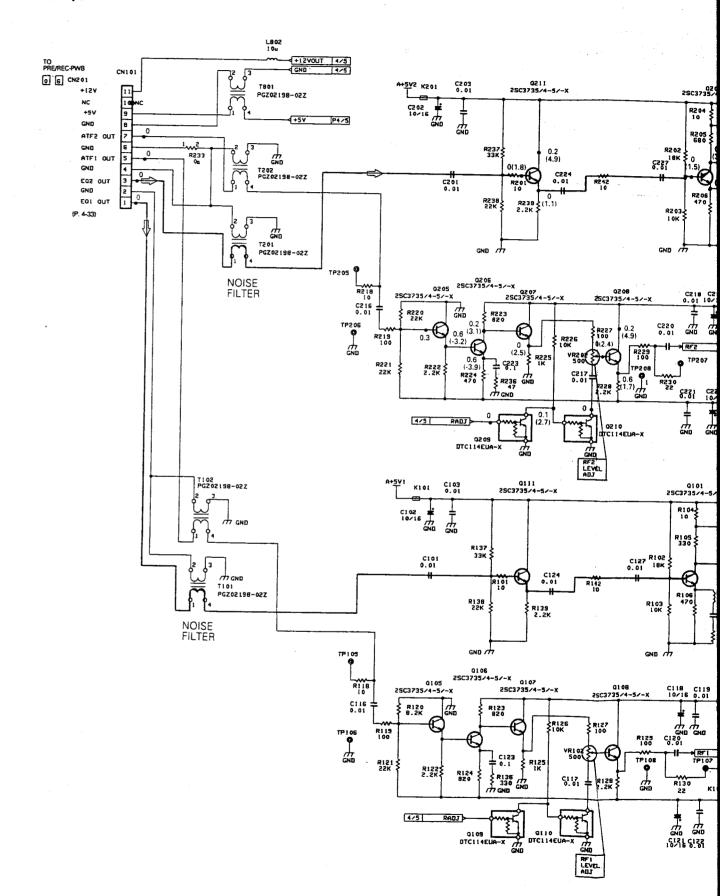
●ADDRESS TABEL OF PV PROCESS BOARD PARTS

Each address may have an address error by one interval



B- 141 B- 133 A- 133 B- 155 B- 15K B- 16K A- 16K A- 16K A- 16K B- 12L B- 12L B- 12L B- 11K B- 11K

RFP SCHEMATIC DIAGRAM [0]4] — DIAGRAM 1/5 —



B- 6F B- 6F B- 8D B- 8D

B- 6E B- 7E

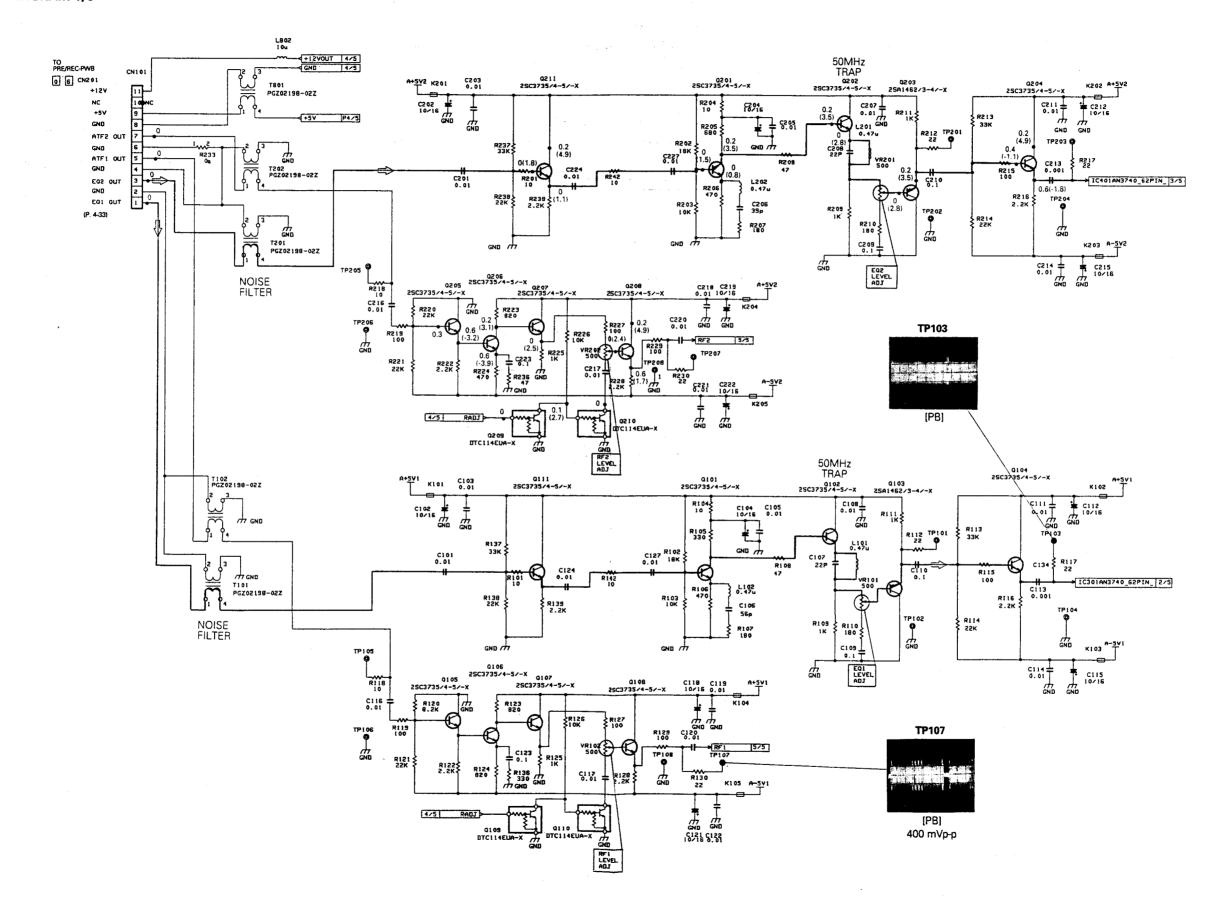
B- 9H B- 9H B- 8H B- 8H B- 8H B- 9H

Q1 Q2 Q3 Q4

D1 D2

R1 R2 R3 R4 R5 R6 R7

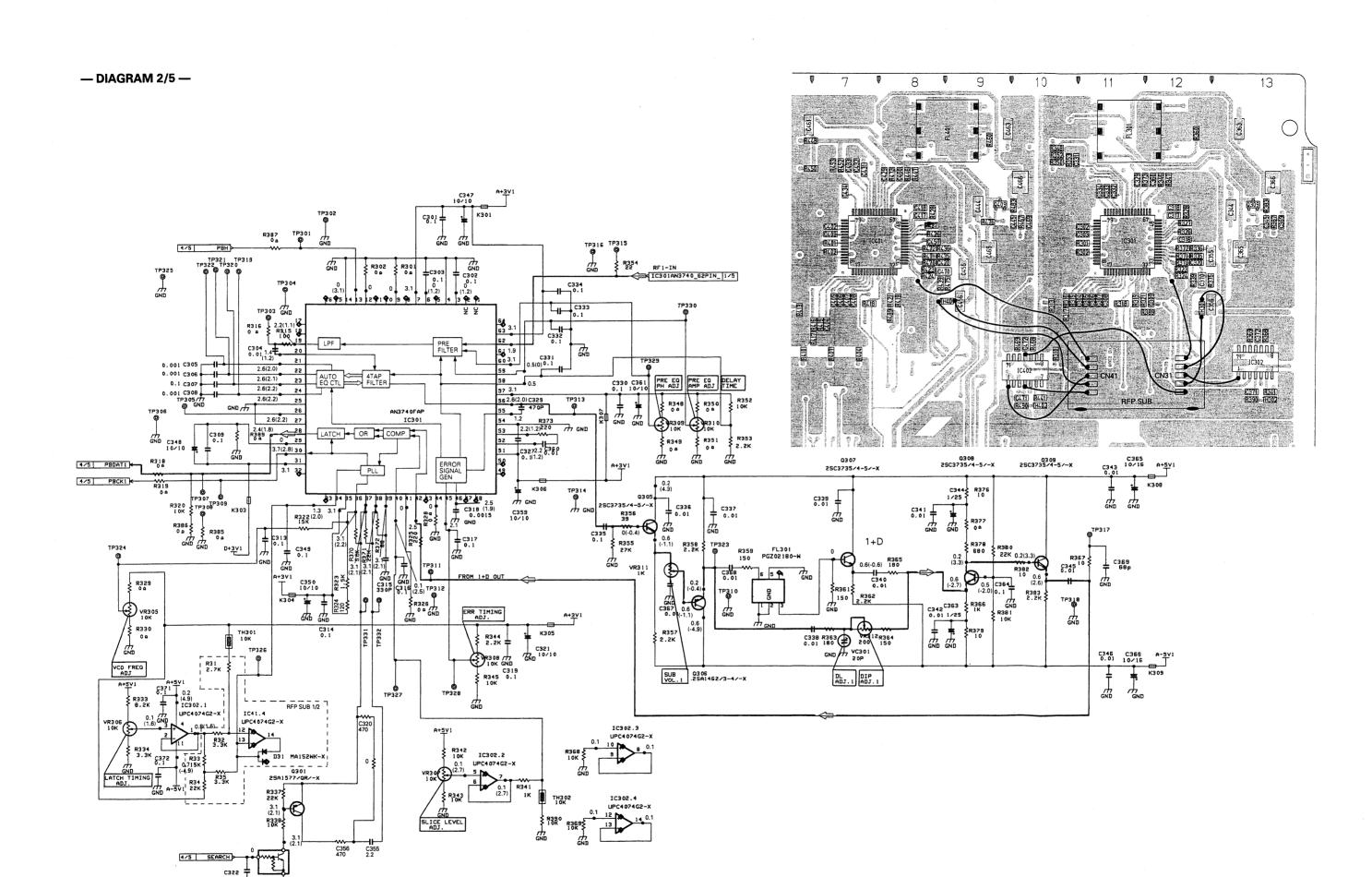
4.17 RFP SCHEMATIC DIAGRAM 014 — DIAGRAM 1/5 —

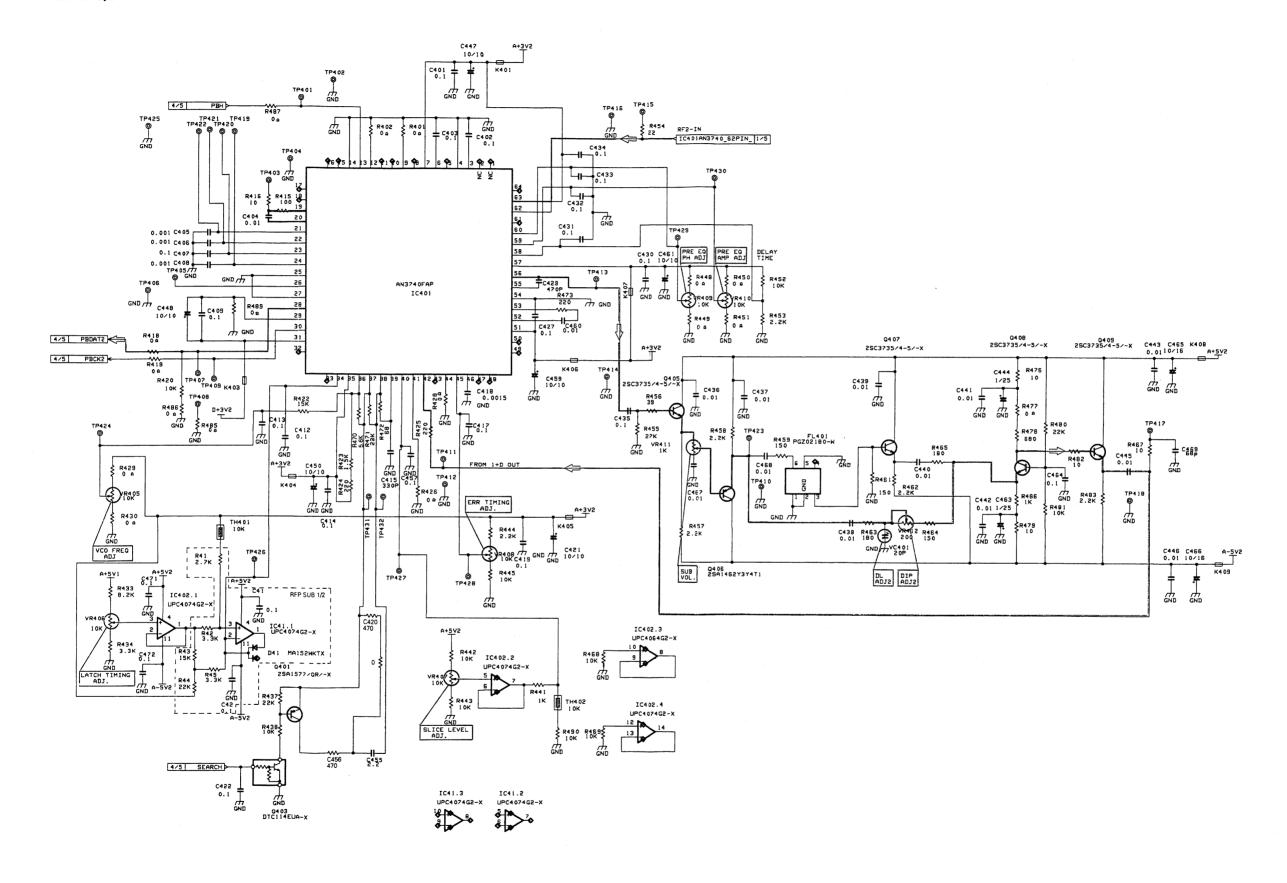


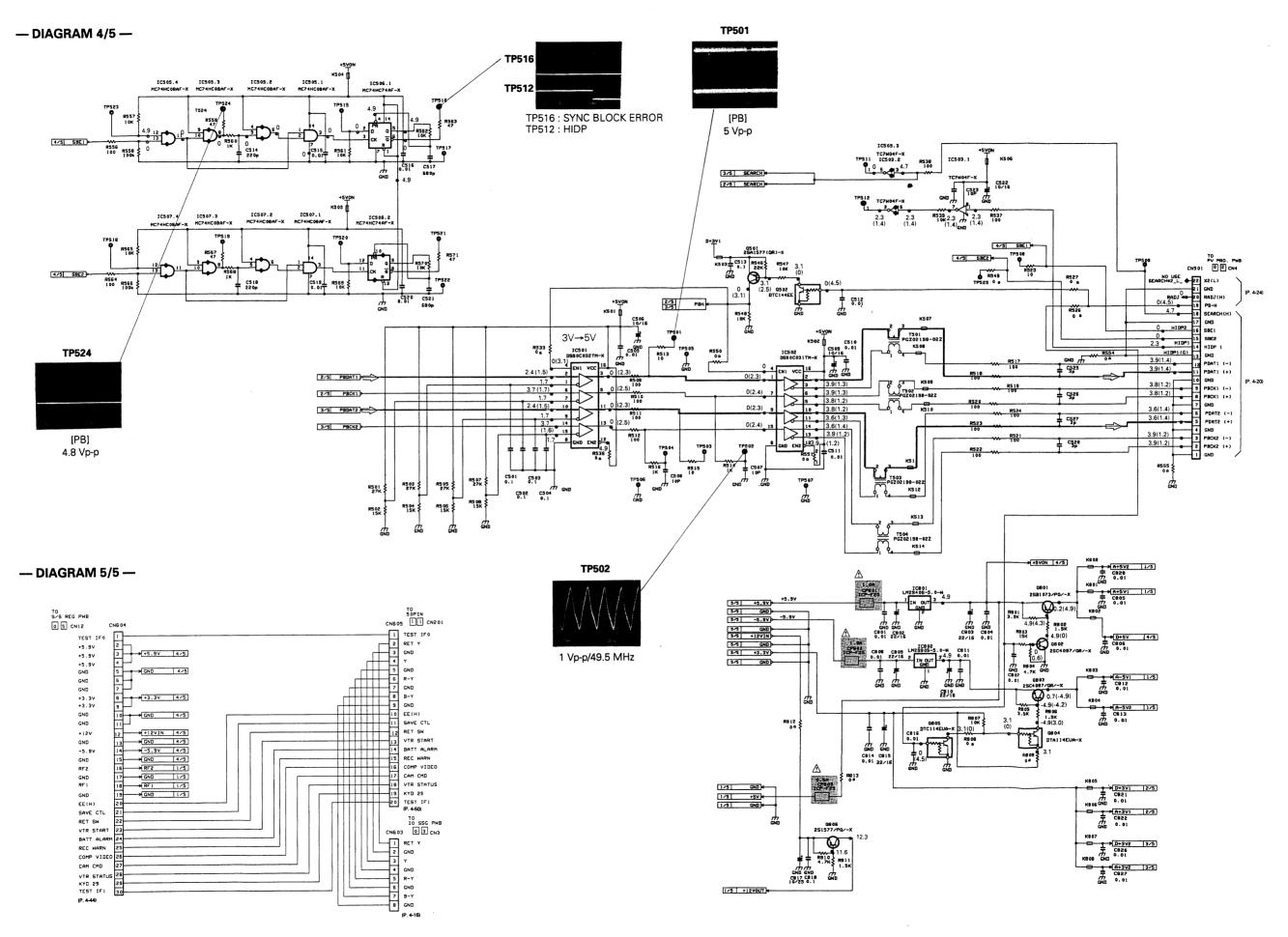
B- 13C B- 7C B- 7C B- 5E B- 5E B- 6C B- 6C B- 16J 1 A- 13G 2 A- 12H A- 2L B- 28 B- 16K A- 2L B- 16B B- 16L

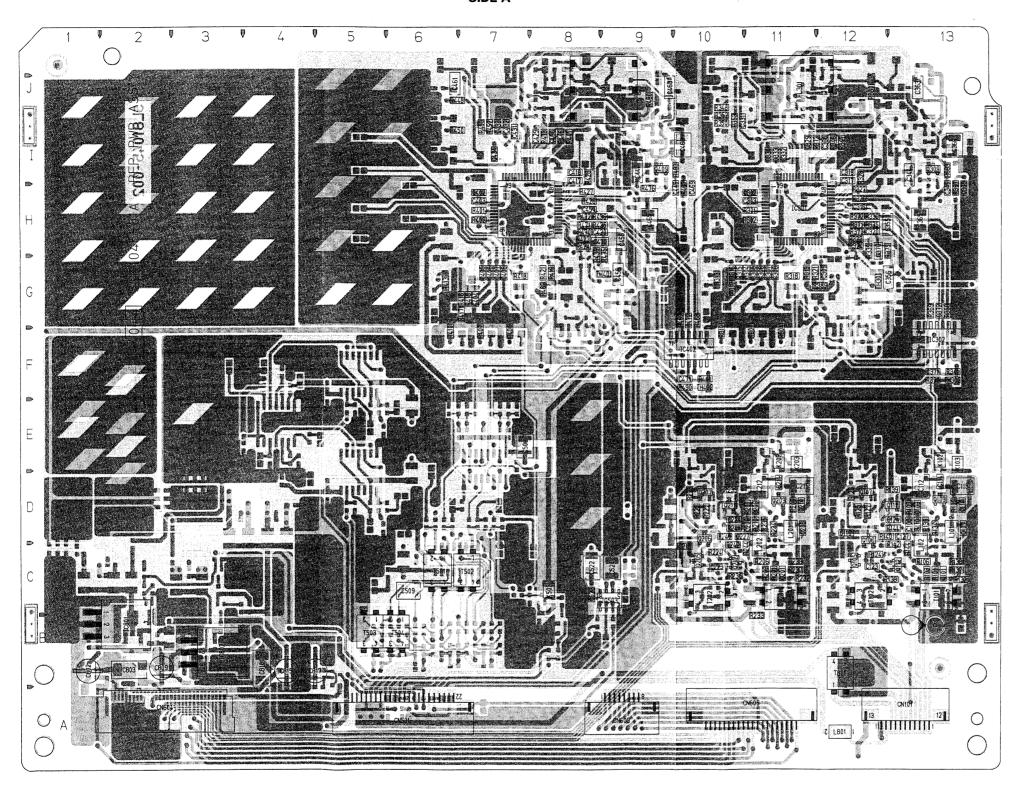
B- 15G A- 16H A- 3A A- 7A A- 13A A- 2G A- 10A A- 15A

A- 16C A- 13I A- 3B



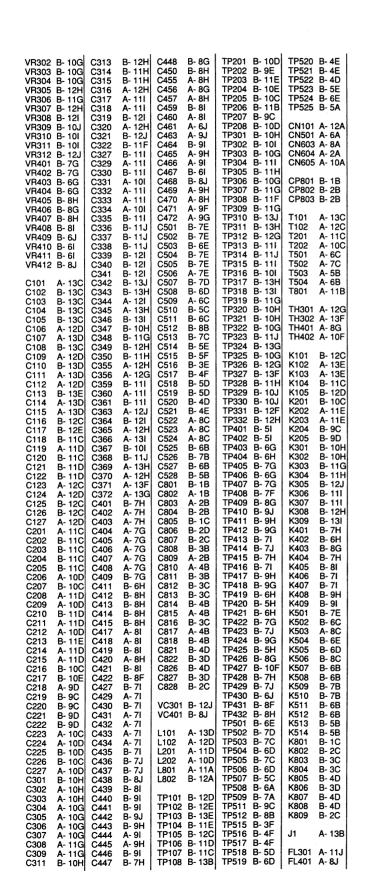


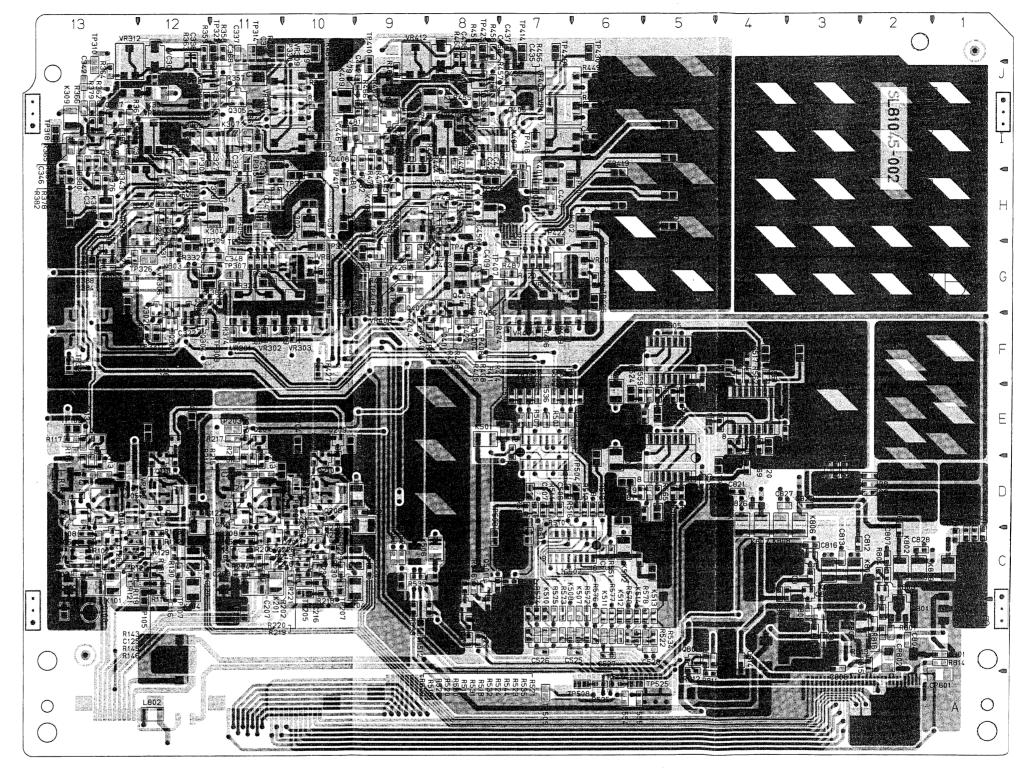




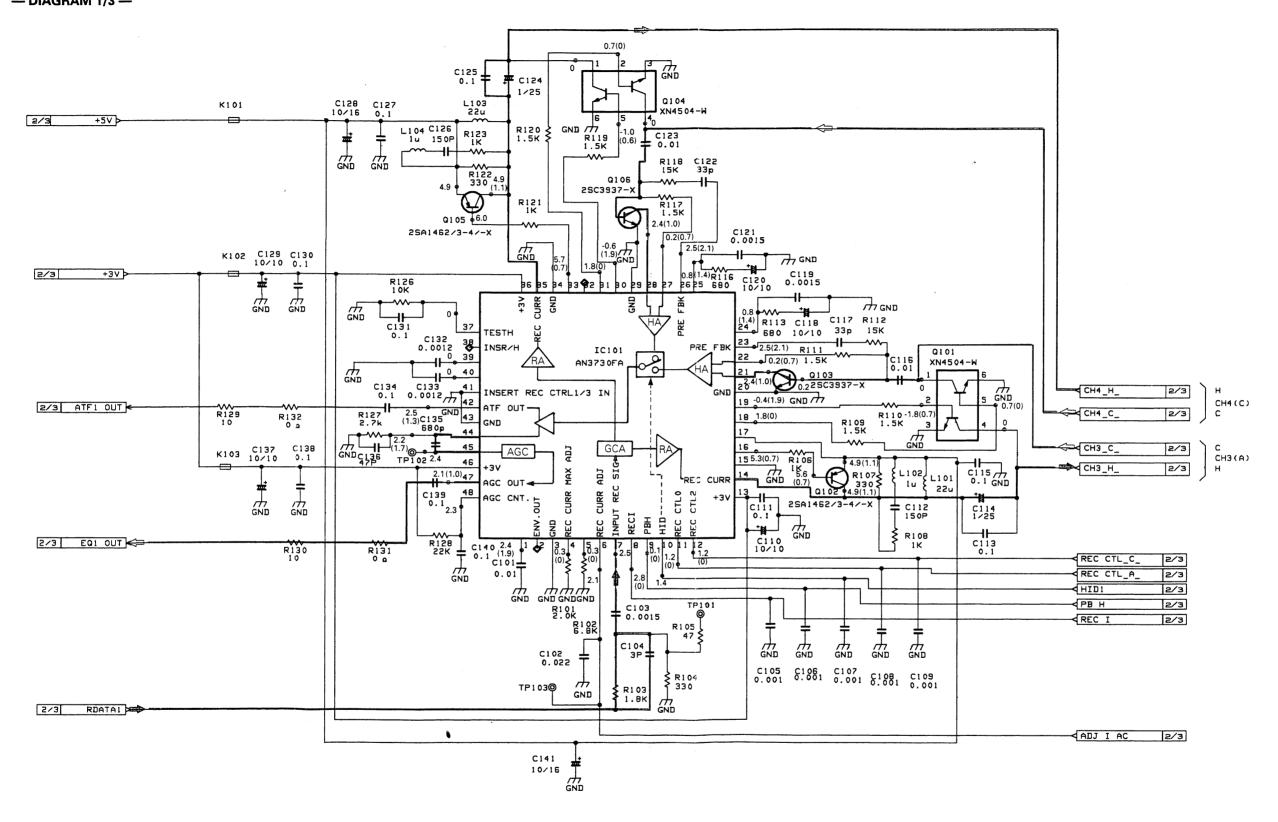
●ADDRESS TABLE OF BOARD PARTS
Each address may have an address error by one interval.

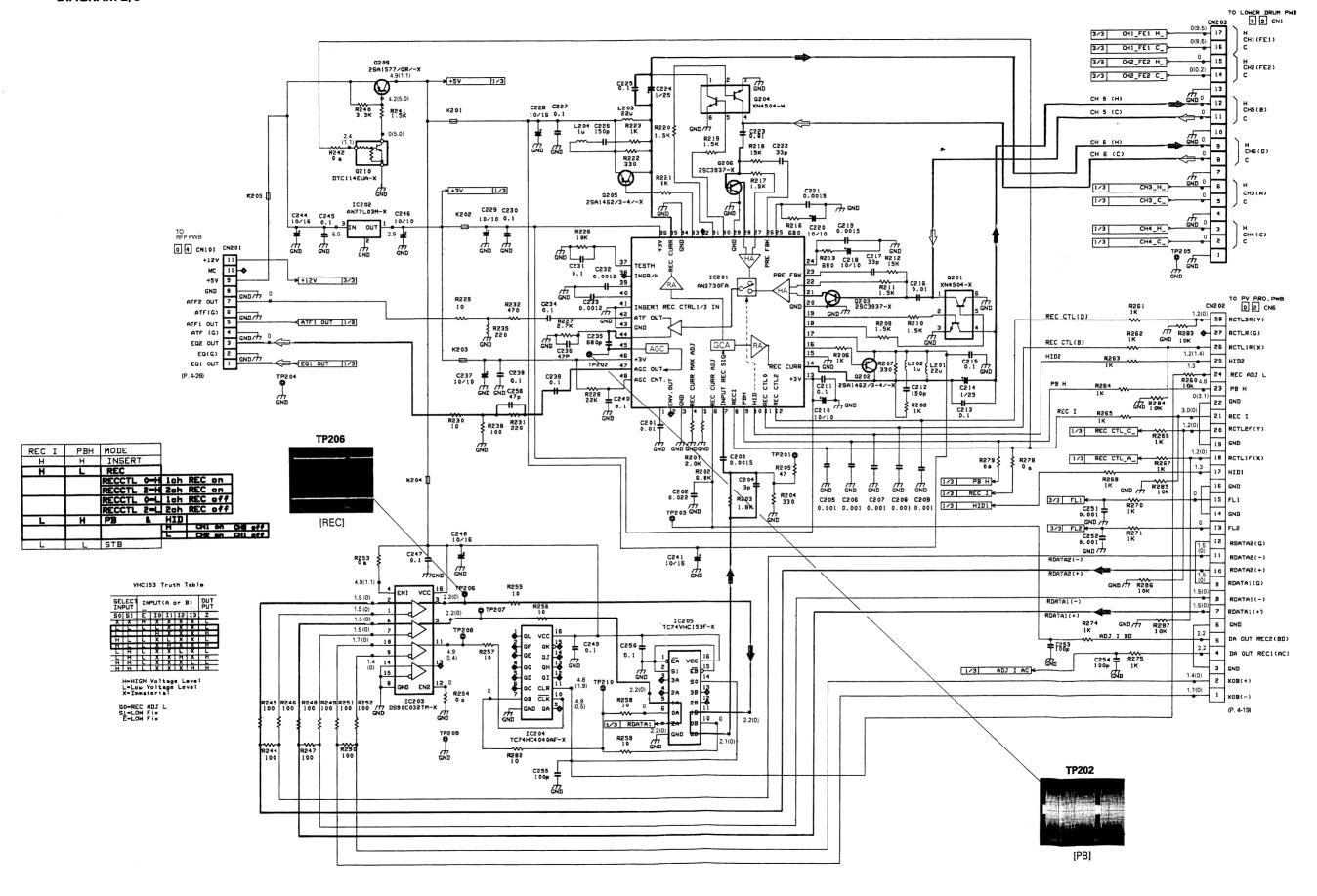


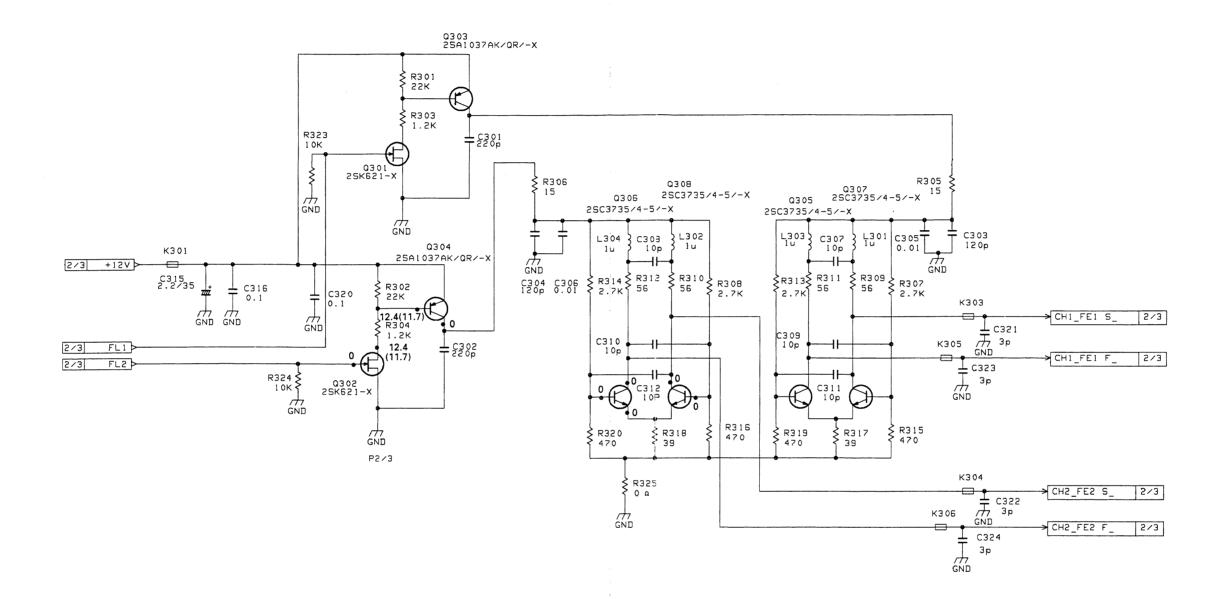




4.19 PRE/REC SCHEMATIC DIAGRAM 06 — DIAGRAM 1/3 —

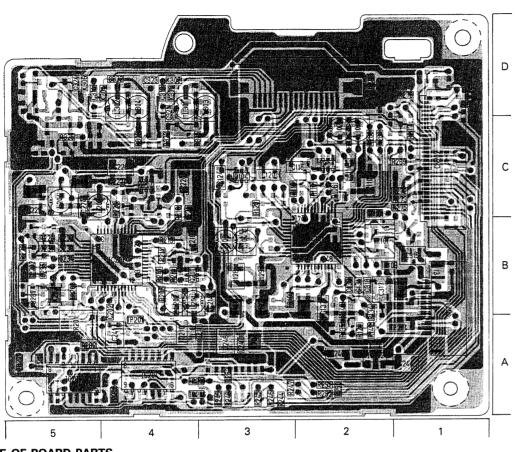


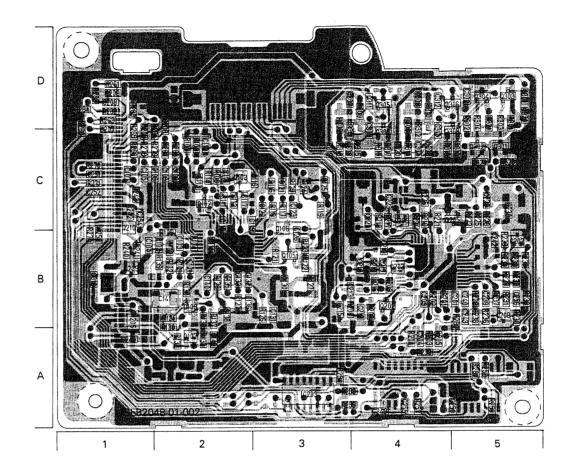




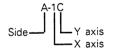
- SIDE A -





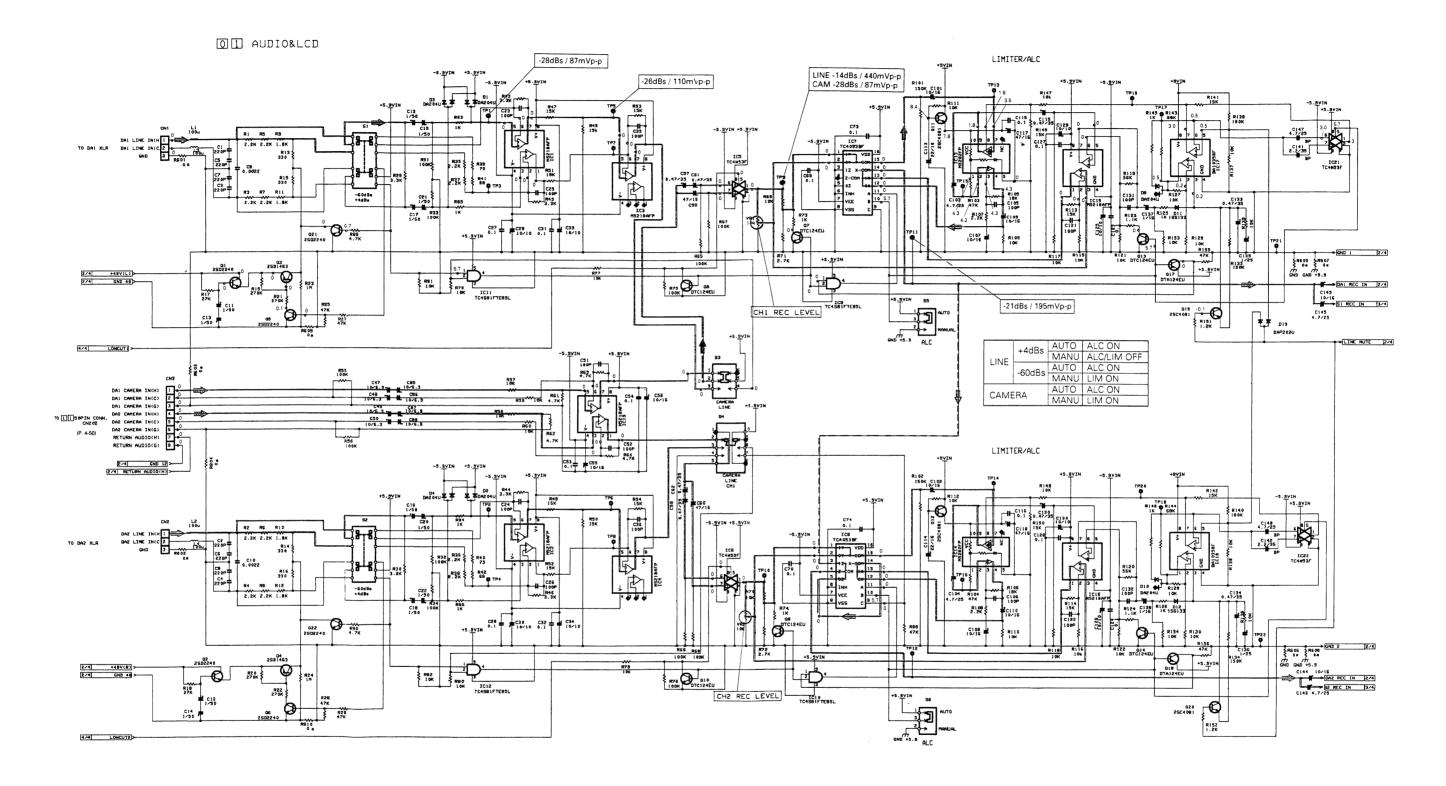


●ADDRESS TABLE OF BOARD PARTS
Each address may have an address error by one interval.

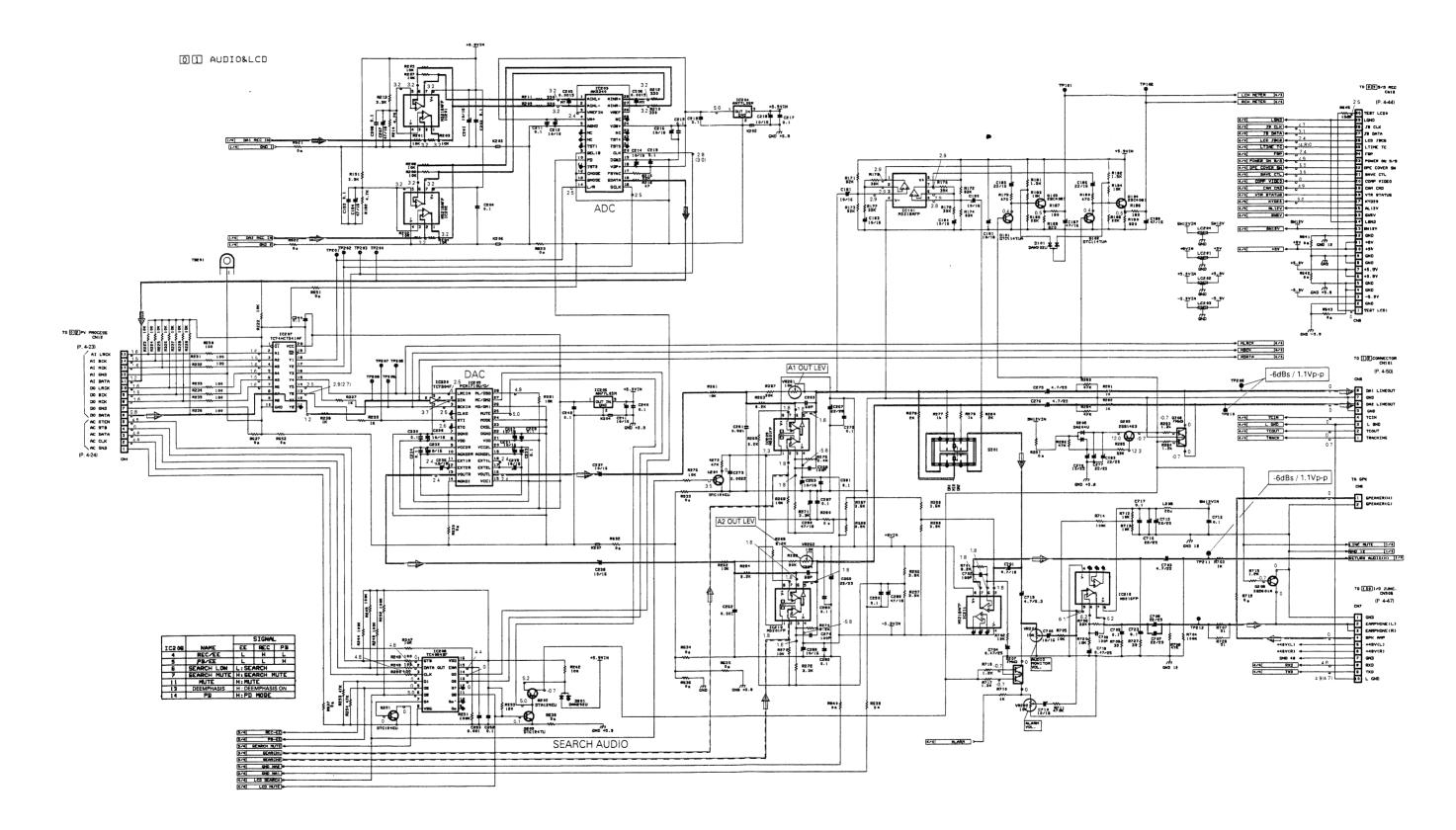


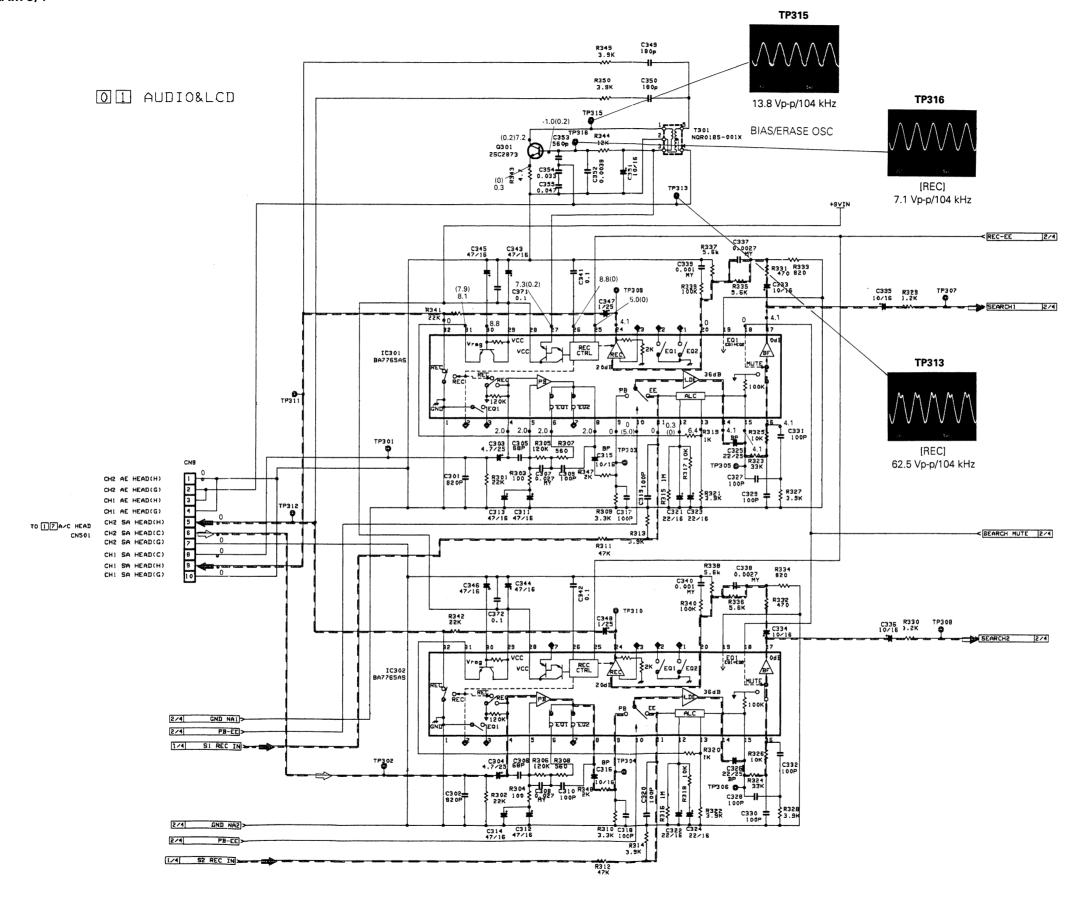
IC101	A- 2B	R101	B- 2B	R135	A- 2A	R229	A- 5B	R263	B- 1D	R310	B- 4D	C115	B- 2C	C206	B- 2D	C240	B- 5B	C318	A- 2B	CN201	A- 1B
IC201	A- 4B	R102	B- 2B	R136	B- 2B	R230	B- 5B	R264	B- 2C	R311	B- 4C	C116	B- 3C	C207	B- 1C	C241	A- 4A	C320	B- 5D	CN202	A- 1C
IC202	A- 2A	R103	B- 2B	R137	B- 2B	R231	B- 5B	R265	B- 1C	R312	B- 4C	C117	B- 2C	C208	B- 1D	C242	B- 5B	C321	A- 4D	CN203	A- 3D
IC203	B- 3A	R104	B- 2B	R138	B- 2B	R232	B- 5B	R266	B- 2C	R313	B- 3C	C118	A- 2C	C209	B- 1D	C243	B- 5B	C322	A- 4D	•	
IC204	A- 4A	R105	B- 2B	R139	B- 2B	R233	B- 5B	R267	B- 2C	R314	B- 4C	C119	B- 3C	C210	A- 4A	C244	A- 1A	C323	A- 4D	K101	A- 3B
IC205	A- 5A	R106	A- 2C	R140	A- 2A	R234	B- 5B	R268	B- 1C	R315	B- 4C	C120	A- 3C	C211	A- 4A	C245	B- 1A	C324	A- 5D	K102	A- 3B
		R107	B- 2C	R201	B- 4B	R235	B- 5B	R269	A- 1C	R316	B- 5C	C121	B- 3C	C212	B- 4B	C246	A- 2A			K103	A- 2B
Q101	A- 2C	R108	B- 2C	R202	B- 4B	R236	B- 5B	R270	B- 1C	R317	B- 4C	C122	B- 3C	C213	B- 4B	C247	A- 3A	L101	A- 2C	K201	A- 5C
Q102	B- 2C	R109	B- 2C	R203	B- 4A	R237	B- 5B	R271	B- 1C	R318	B- 5C	C123	B- 3C	C214	A- 3B	C248	A- 3A	L102	A- 2C	K202	A- 5C
Q103	B- 2C	R110	A- 2C	R204	B- 4A	R238	B- 5B	R272	A- 1C	R319	B- 3C	C124	A- 3C	C215	B- 3B	C249	B- 4A	L103	A- 3B	K203	A- 5B
Q104	A- 3C	R111	B- 2C	R205	B- 4A	R239	B- 4A	R273	A- 1C	R320	B- 4C	C125	B- 3C	C216	B- 4B	C250	B- 5A	L104	A- 3B	K204	A- 3A
Q105	B- 3B	R112	B- 2C	R206	A- 4B	R240	B- 1B	R274	B- 1B	R321	B- 5D	C126	B- 3B	C217	B- 4B	C251	B- 1C	L201	A- 4B	K205	B- 1B
Q106	B- 3B	R113	A- 3C	R207	B- 4B	R241	B- 1B	R275	A- 1C	R322	A- 4C	C127	B- 3B	C218	A- 4B	C252	B- 1C	L202	A- 4B	K301	B- 1B
Q107	B- 2A	R114	B- 2C	R208	B- 4B	R242	B- 1C	R276	A- 1D	R323	B- 5C	C128	A- 3B	C219	B- 4B	C253	B- 1B	L203	A- 5C	K302	A- 1B
Q108	B- 2B	R115	B- 2C	R209	B- 4B	R243	B- 1C	R277	A- 1C	R324	B- 5C	C129	A- 3B	C220	A- 4C	C254	B- 1C	L204	A- 5C	K303	A- 4D
Q201	A- 4B	R116	B- 3C	R210	A- 4B	R244	A- 3A	R278	B- 1C	R325	A- 5C	C130	B- 3B	C221	A- 4C	C255	B- 4A	L301	A- 4D	K304	A- 4D
Q202	B- 4B	R117	B- 3C	R211	A- 4B	R245	A- 3A	R279	B- 2C	VD404		C131	B- 3B	C222 C223	B- 4C B- 4C	C256 C301	B- 5B B- 5D	L302 L303	A- 4D A- 3D	K305 K306	A- 4D A- 5D
Q203	B- 4B	R118	B- 3C	R212	B- 4B	R246	A- 3A	R280	B- 5B	VR101	A- 2B	C132 C133	B- 2B B- 2B	C223	A- 5C	C301	B- 5D	L303	A- 4D	K300	A- 3D
Q204	A- 4C	R119	B- 3C	R213	A- 4B	R247	A- 3A	R281	B- 5A	VR201	A- 5A	C133	A- 2B	C225	B- 5C	C302	B- 4C	L304	A- 40		1
Q205	B- 5C	R120	A- 3C	R214	A- 4B	R248	A- 3A A- 3A	R282 R283	A- 5A B- 1D	C101	B- 2B	C134	B- 2B	C226	B- 5C	C304	B- 4C	TP101	A- 2C		
Q206	B- 4C	R121	B- 3B	R215	B- 4B A- 4C	R249 R250	A- 3A A- 2A	R284	B- 1D	C101	B- 2B	C135	B- 2B	C227	A- 4C	C305	B- 4C	TP102	A- 3B		
Q207 Q208	B- 5B B- 5B	R122 R123	B- 3B B- 3B	R216 R217	B- 4C	R251	A- 2A	R285	B- 1D	C102	B- 2B	C137	A- 2B	C228	A- 4C	C306	B- 4C	TP103	A- 2B		
Q209	B- 3B	R123	B- 3C	R217	B- 4C	R252	A- 2A	R286	A- 2C	C103	B- 1B	C137	B- 2B	C229	A- 5C	C307	B- 4D	TP201	A- 4A		
Q210	B- 1B	R125	B- 3C	R219	B- 4C	R253	A- 3A	R287	A- 2C	C105	B- 1C	C139	A- 2B	C230	B- 5C	C308	B- 4D	TP202	A- 5B		
Q301	B- 5C	R126	B- 3B	R220	A- 4C	R254	B- 3A	R301	B- 5D	C106	B- 2C	C140	B- 2B	C231	A- 5B	C309	B- 4C	TP203	A- 5B		
Q302	B- 5C	R127	B- 2B	R221	B- 4C	R255	B- 4A	R302	B- 5D	C107	B- 1C	C141	B- 2B	C232	A- 5B	C310	B- 4C	TP204	A- 1A		
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Q304	B- 5D	R129	A- 2A	R223	B- 5C	R257	B- 4A	R304	B- 5D	C109	B- 2C	C143	A- 2B	C234	A- 5B	C312	B- 4D	TP206	A- 4A		1
Q305	B- 4D	R130	B- 2A	R224	B- 4C	R258	B- 5A	R305	A- 4C	C110	A- 2C	C201	B- 5B	C235	A- 5B	C313	A- 4D	TP207	A- 4A		- 1
Q306	B- 5D	R131	B- 2B	R225	B- 4C	R259	B- 5A	R306	A- 4C	C111	B- 2B	C202	A- 4B	C236	B- 5B	C314	A- 5D	TP208	A- 4A		
Q307	B- 4C	R132	B- 2A	R226	A- 5B	R260	B- 1C	R307	B- 3D	C112	B- 2C	C203	B- 4B	C237	A- 5B	C315	A- 1B	TP209	A- 5A		l
Q308	B- 5C	R133	B- 2A	R227	B- 5B	R261	B- 1D	R308	B- 4D	C113	B- 2C	C204	B- 4A	C238	B- 5B	C316	B- 1B	TP210	A- 5A		
		R134	A- 2B	R228	B- 5B	R262	B- 1D	R309	B- 4D	C114	A- 2C	C205	B- 1C	C239	B- 5B	C317	A- 2B				1
				,																	

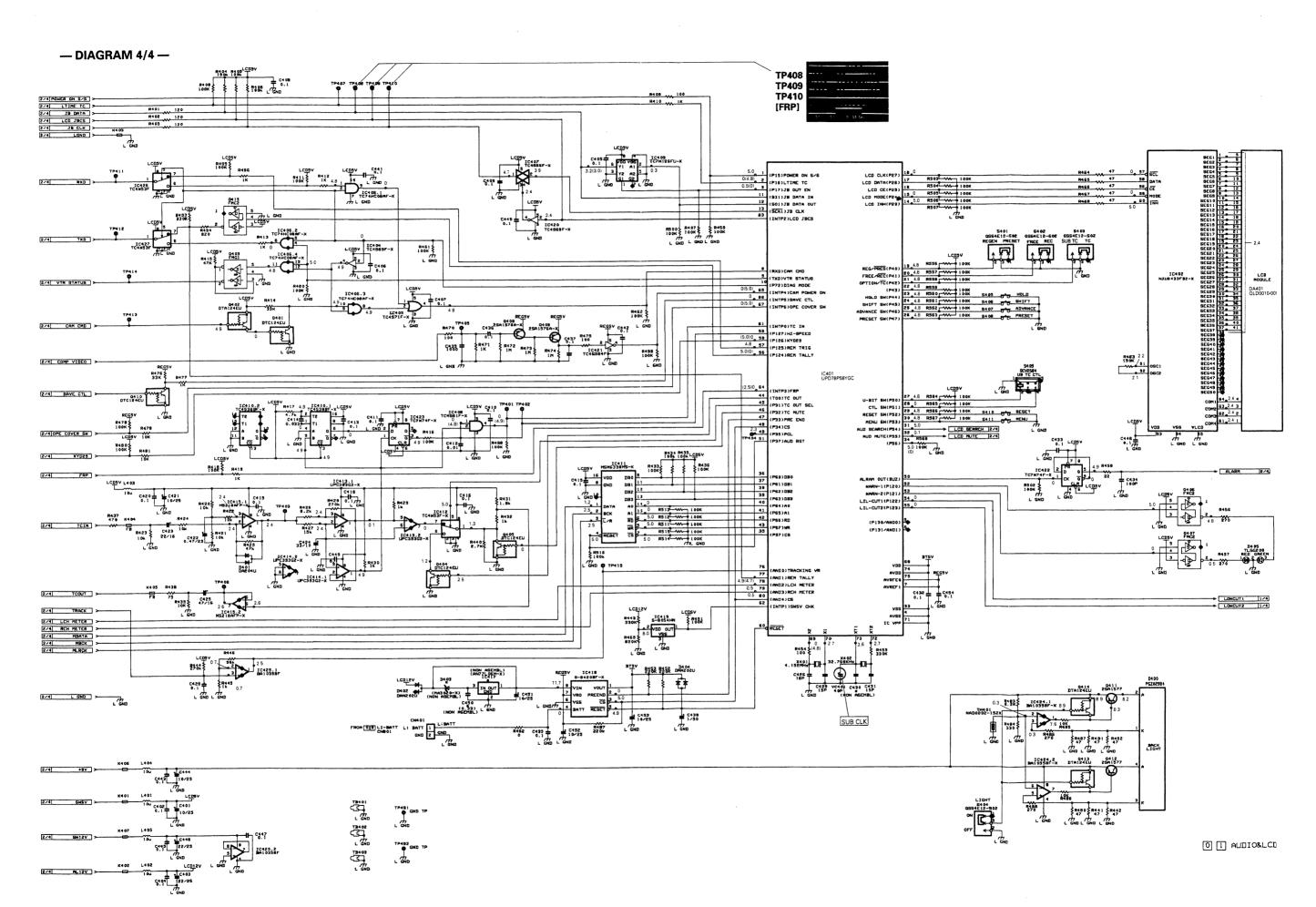
4.21 AUDIO & LCD SCHEMATIC DIAGRAM 011 — DIAGRAM 1/4 —



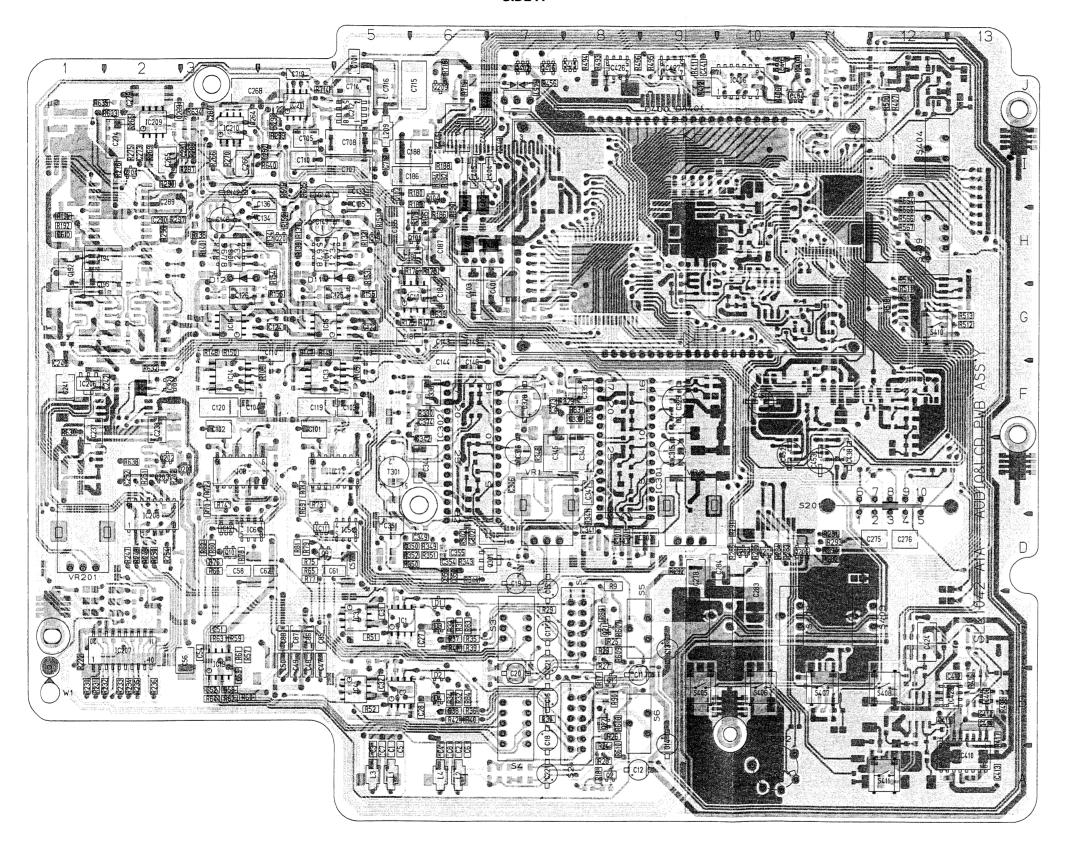
— DIAGRAM 2/4 —







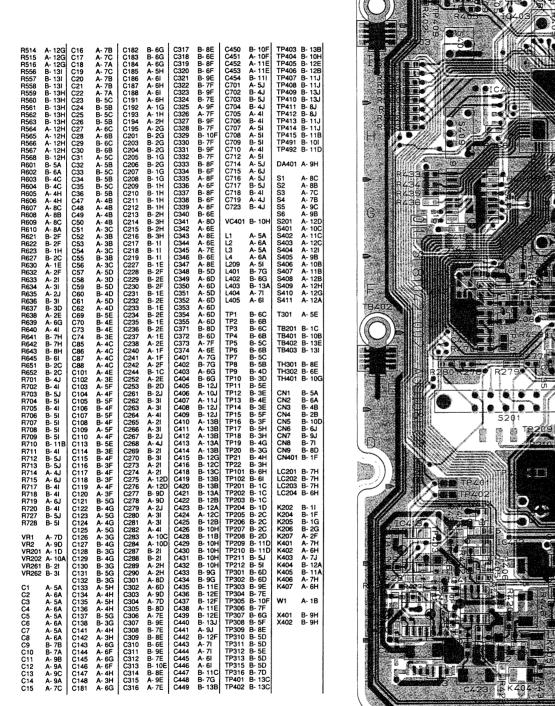
- SIDE A -

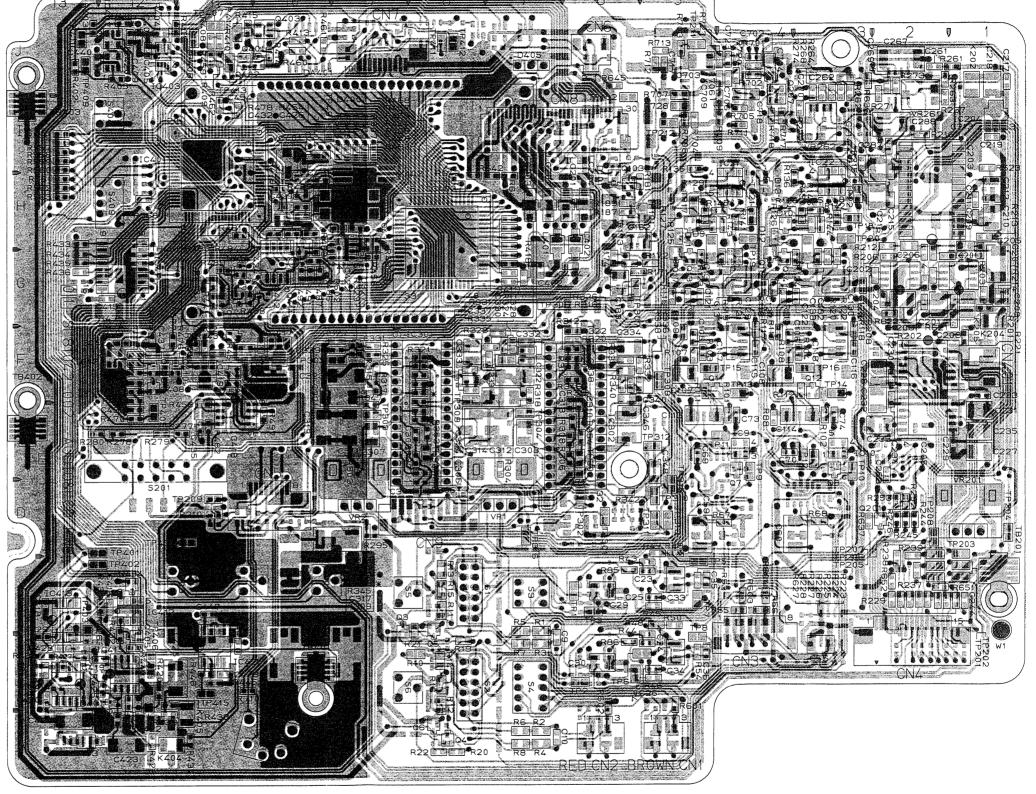


●ADDRESS TABLE OF BOARD PARTS

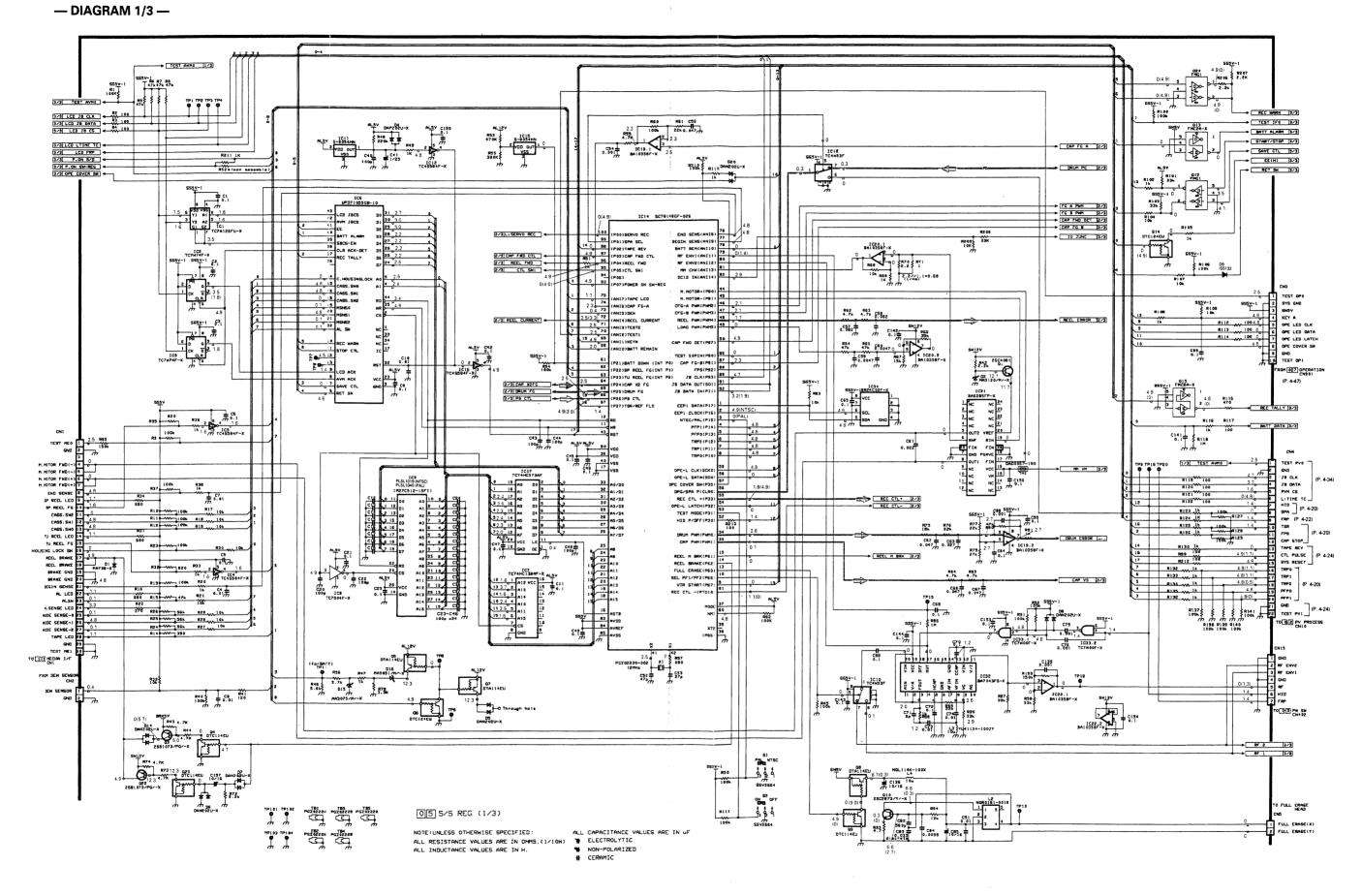
Each address may have an address error by one interval.

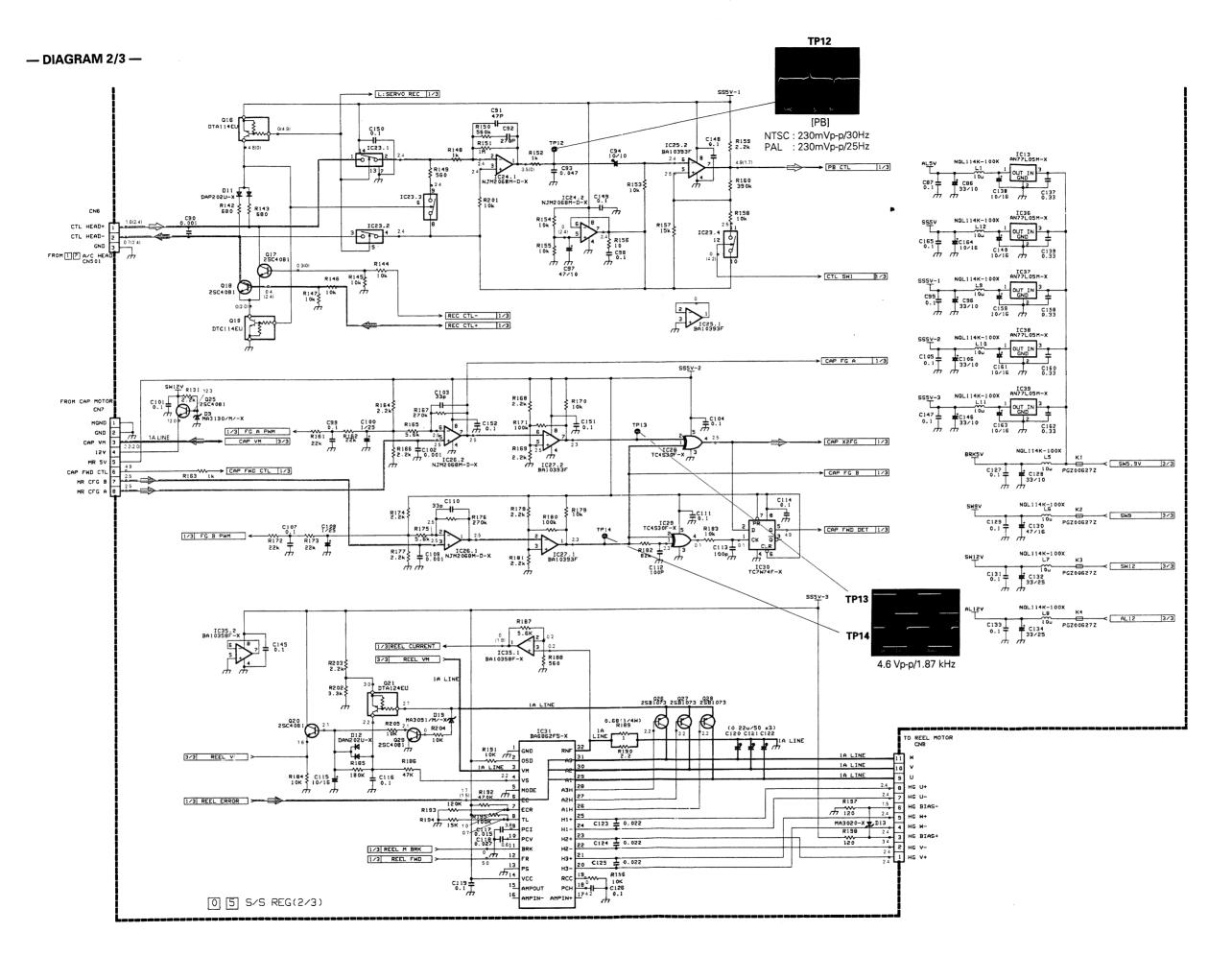




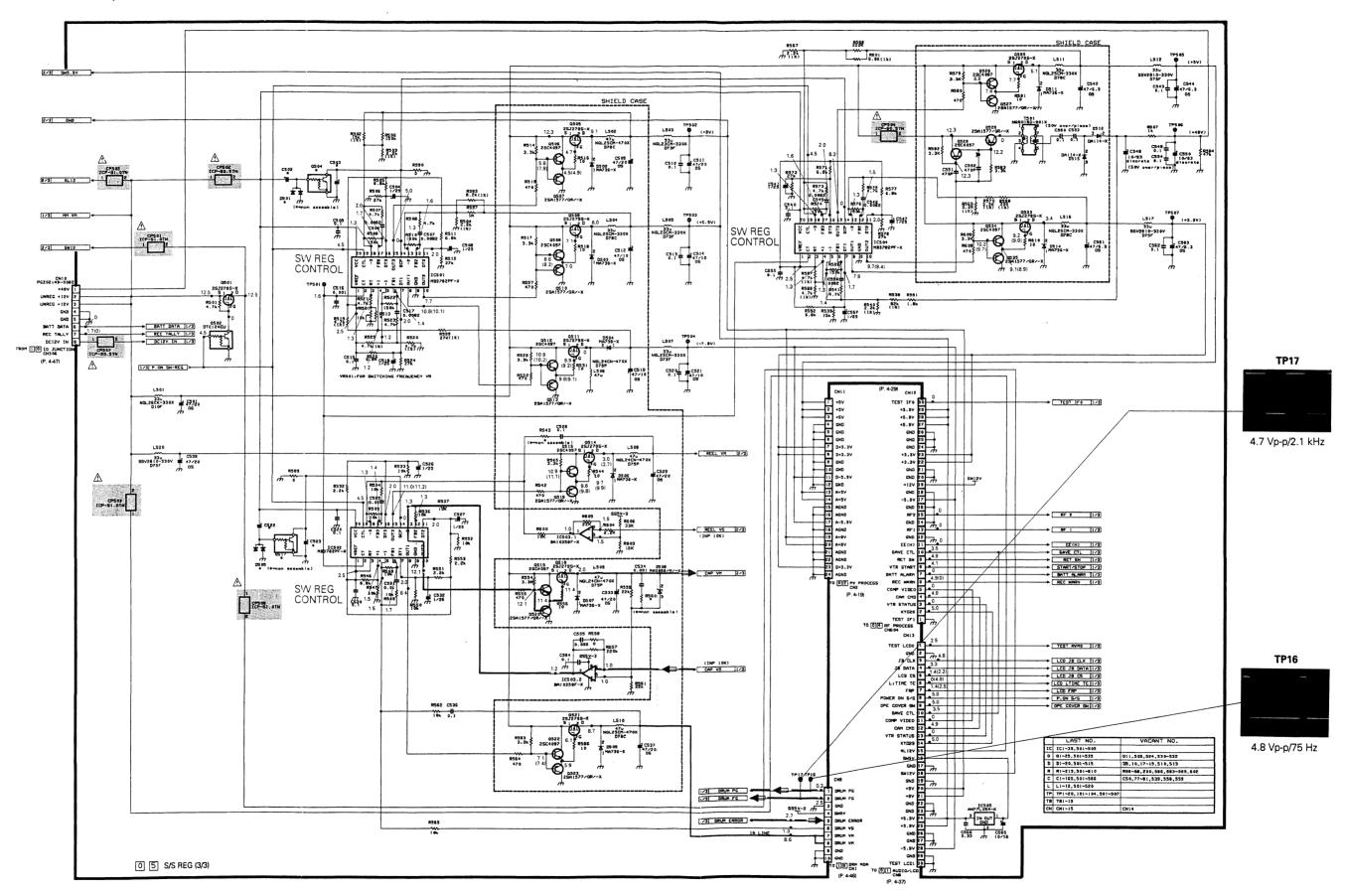


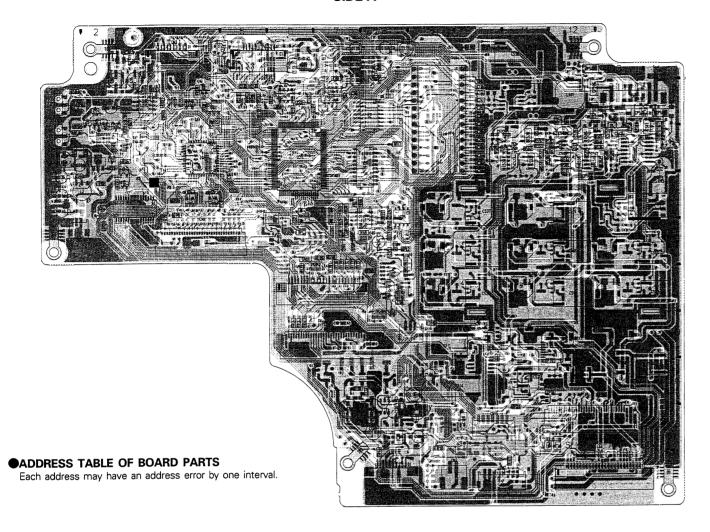
4.23 S/S REG SCHEMATIC DIAGRAM 05

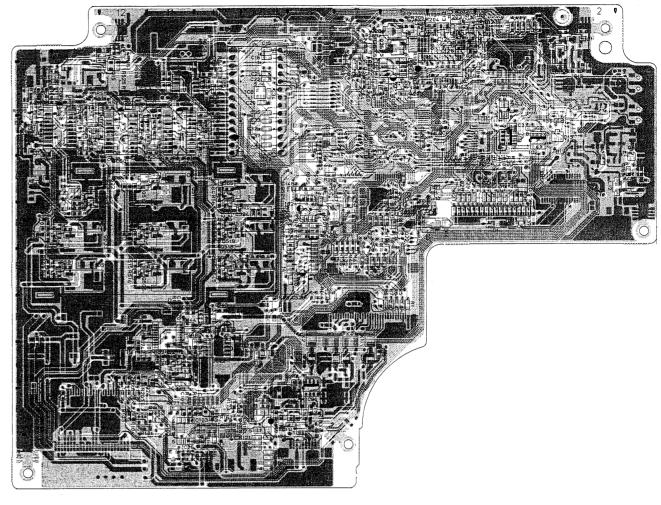


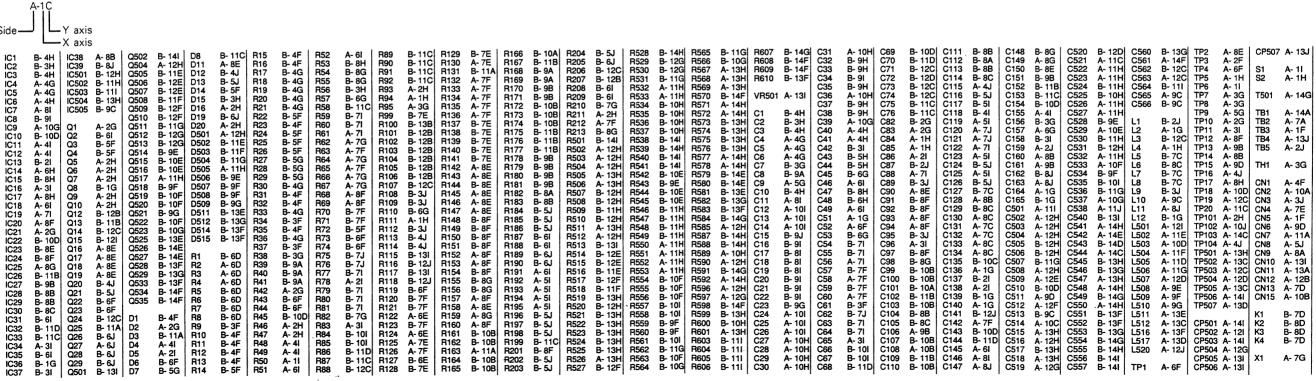


— DIAGRAM 3/3 —



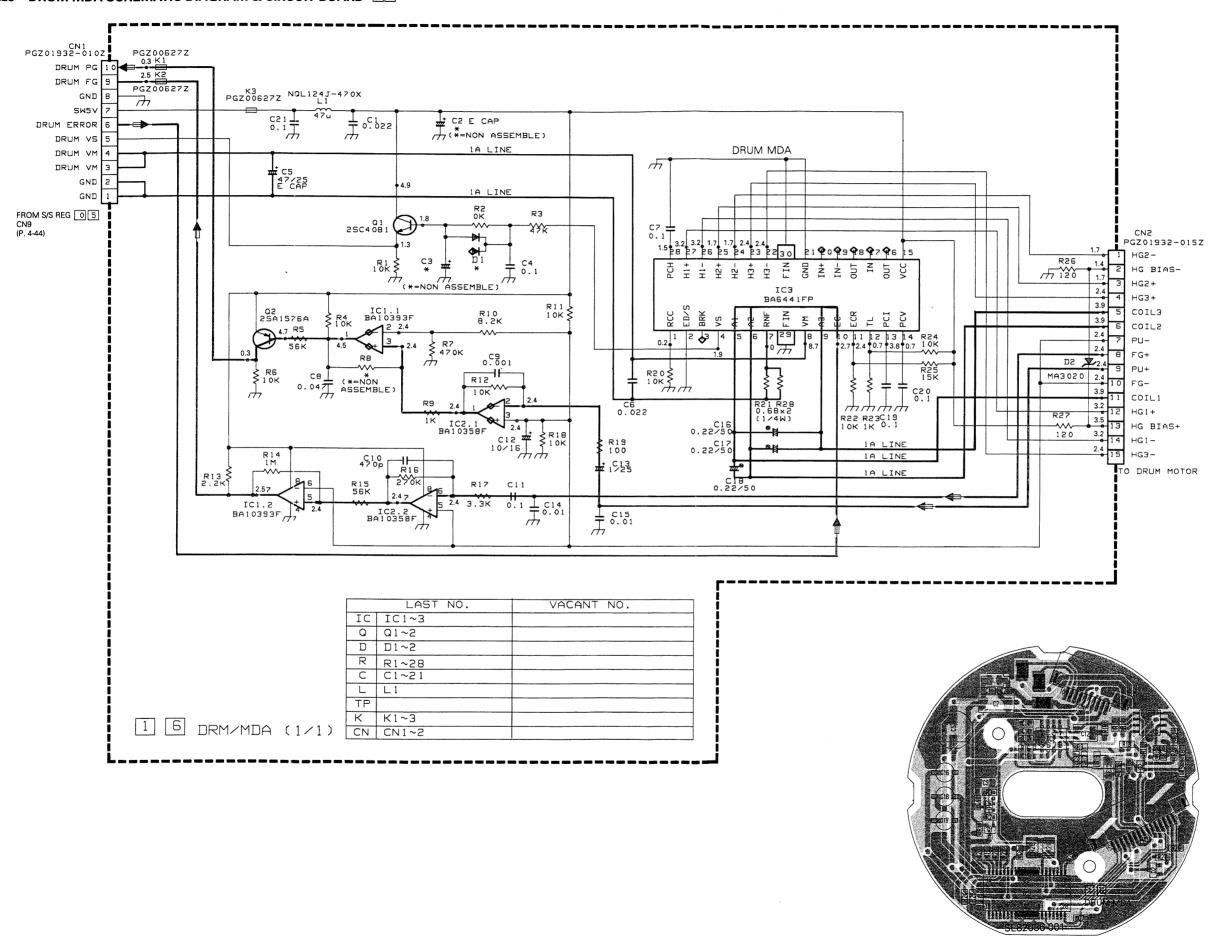




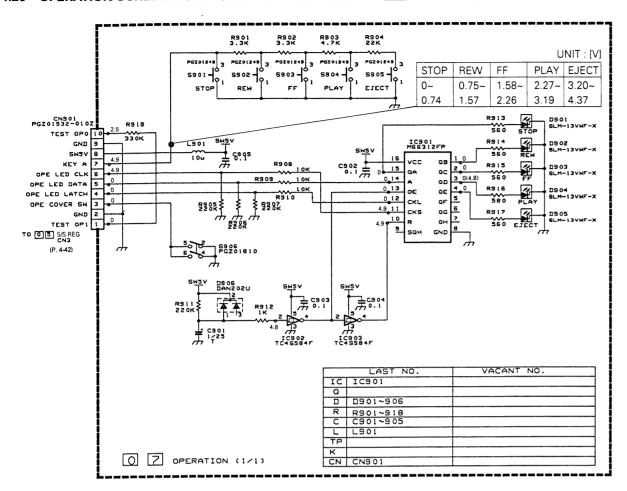


4-45

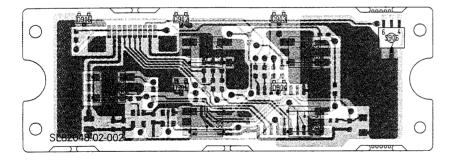
4.25 DRUM MDA SCHEMATIC DIAGRAM & CIRCUIT BOARD [1]6



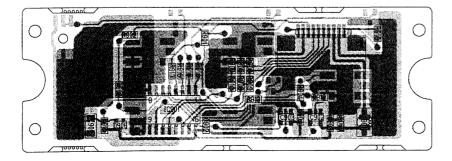
4.26 OPERATION SCHEMATIC DIAGRAM & CIRCUIT BOARD 07



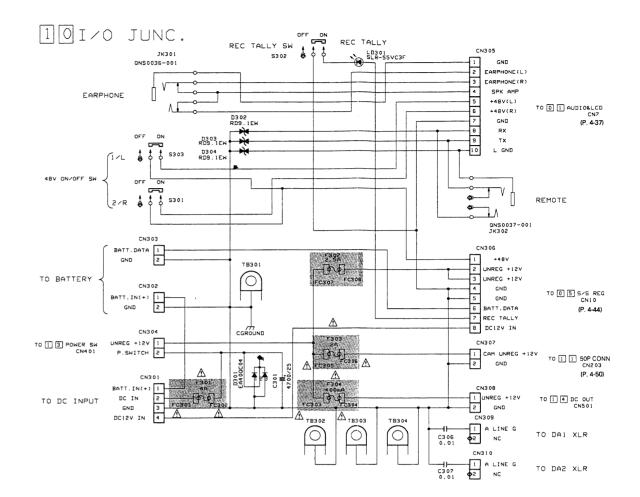
- SIDE A -

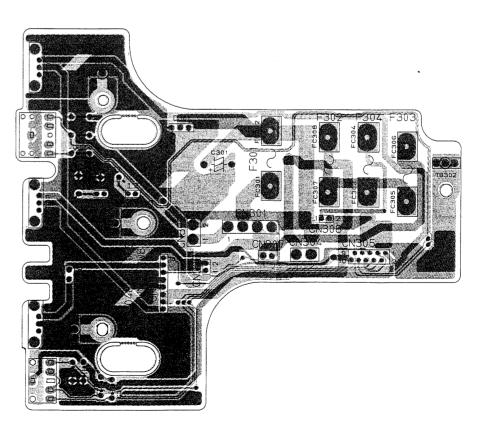


- SIDE B -



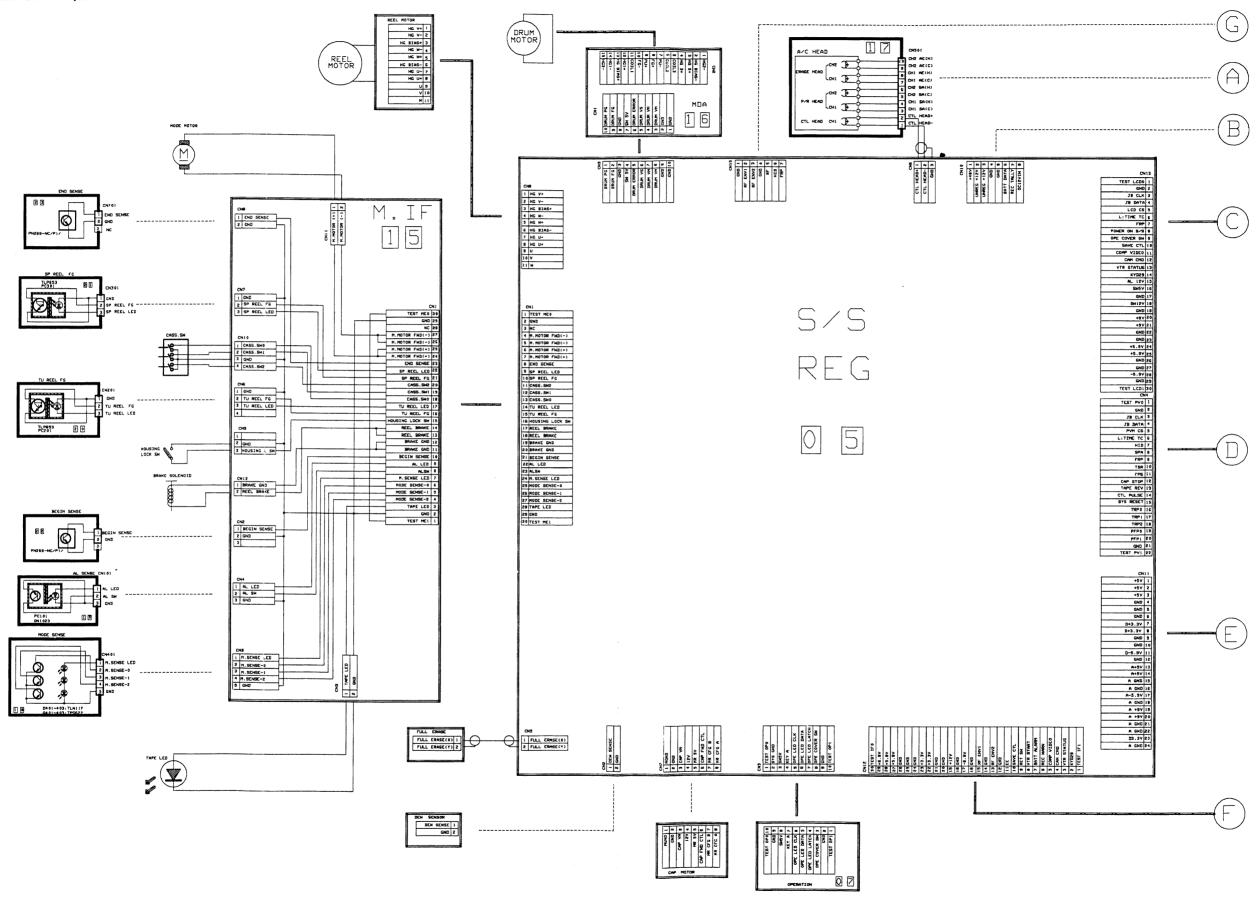
4.27 I/O JUNC SCHEMATIC DIAGRAM & CIRCUIT BOARD 10



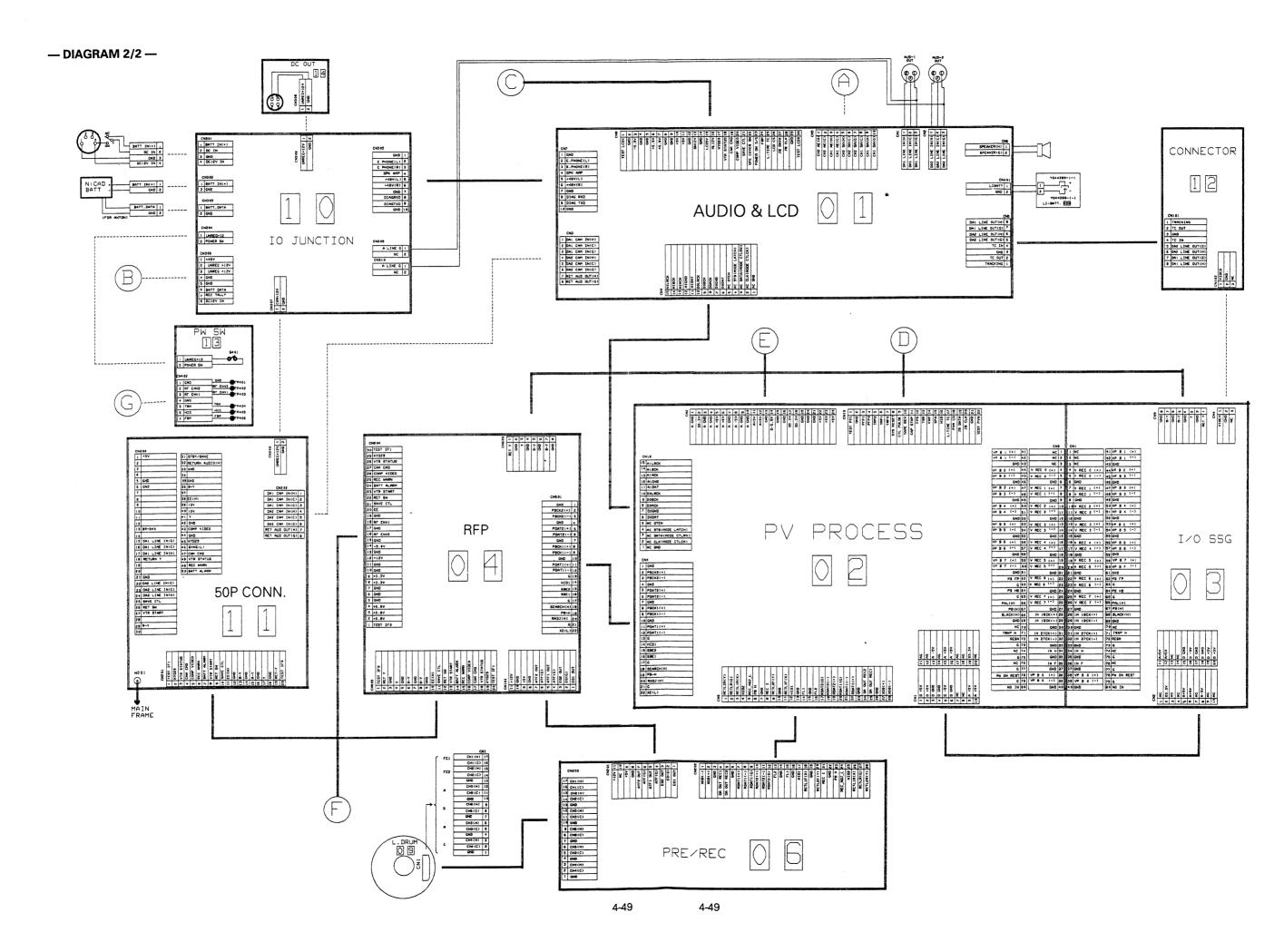


4.28 OVERALL WIRING DIAGRAMS

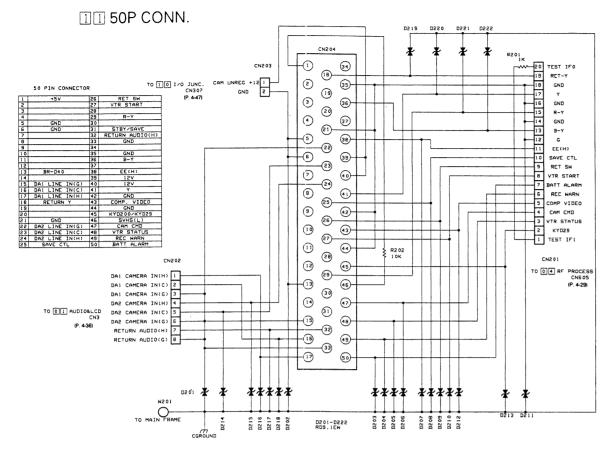
— DIAGRAM 1/2 —

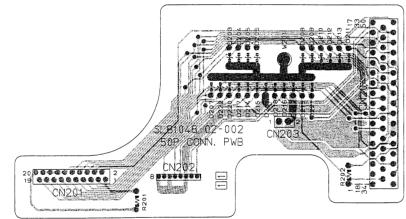


4-48

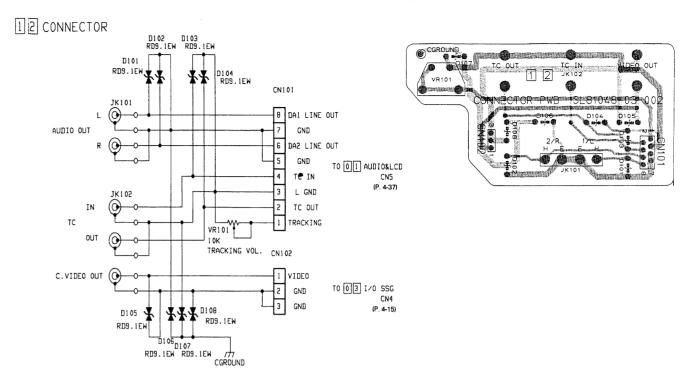


4.29 50P CONN. SCHEMATIC DIAGRAM & CIRCUIT BOARD 11

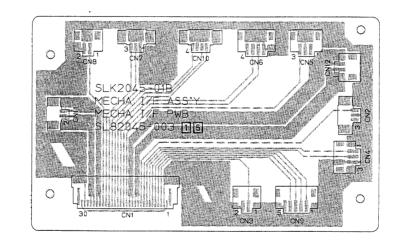




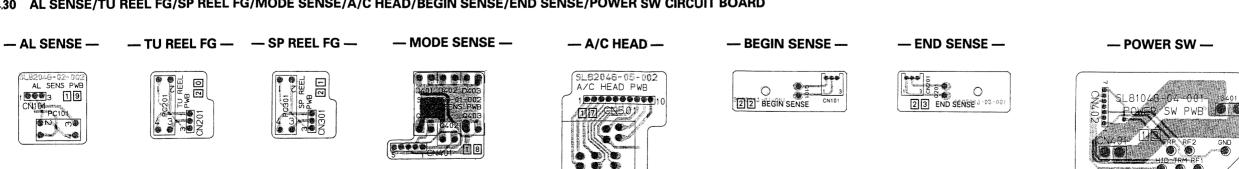
4.31 CONNECTOR SCHEMATIC DIAGRAM & CIRCUIT BOARD [1][2]



4.32 MECHA. I/F CIRCUIT BOARD



4.30 AL SENSE/TU REEL FG/SP REEL FG/MODE SENSE/A/C HEAD/BEGIN SENSE/END SENSE/POWER SW CIRCUIT BOARD

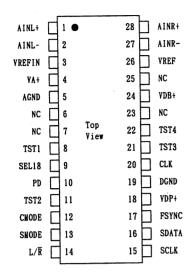


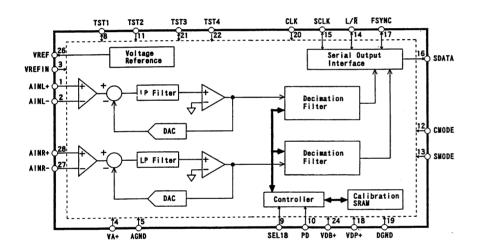
4-50

4-50

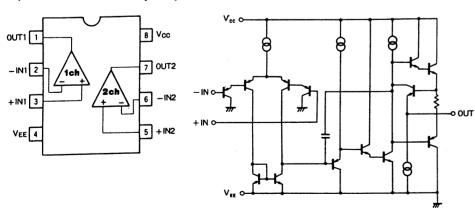
4.33 BLOCK DIAGRAMS of IC'S

AK5340-VS [ASAHIKASEI] (18 bit 2 Channel A/D Converter)

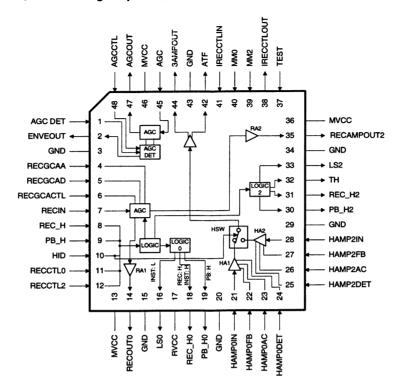




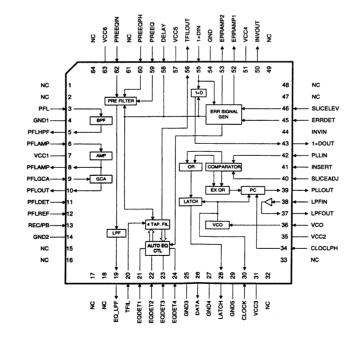
■ BA10358F-X [ROHM] (Dual Ground Sense Op.Amp.)



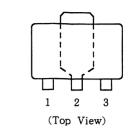
AN3730FA [MATSUSHITA] (Pre-Recoding Amplifire)

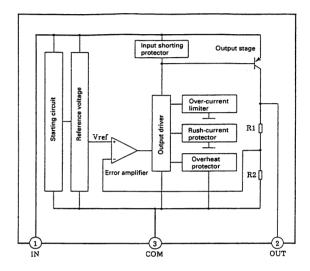


AN3740FAP [MATSUSHITA] (Playback Amplifire)

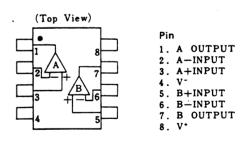


■ AN77L03M-X [MATSUSHITA] ■ AN77L05M-X [MATSUSHITA] (Voltage Regulator)

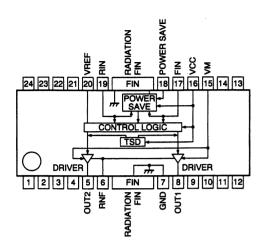




■ BA10393F-X [ROHM] (Dual Comparator)



■ BA6285FP-X [ROHM] (Reversible Motor Driver)

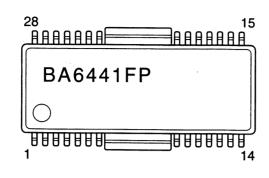


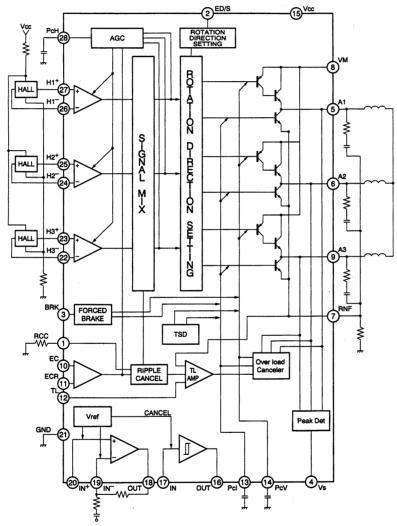
(Top View)

Pin No.	Symbol	Function
1	NC	
2	NC	
3	NC	
4	NC	
5	OUT 2	Motor drive output
6	RNF	GND for motor drive output
7	GND	GND
. 8	OUT 1	Motor drive output
9	NC	
10	NC	
11	NC	
12	NC	
13	NC	
14	NC	
15	VM	Power source for motor drive
16	Vcc	
17	FIN	Logic input
18	POWER SAVE	Less than 0.8 V : Movement
		More than 2 V : Stand-by
19	Rin	Logic input
20	VREF	Motor drive output voltage (high level) setting
21	NC	
22	NC	
23	NC	
24	NC ·	
FIN	FIN	Connect the GND

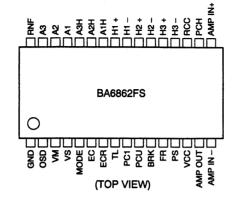
NC : Not connected

■ BA6441FP-X [ROHM] (Motor Driver)

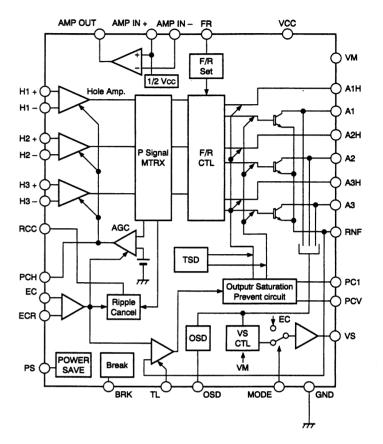




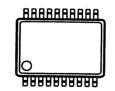
■ BA6862FS-X [ROHM] (Motor Driver)



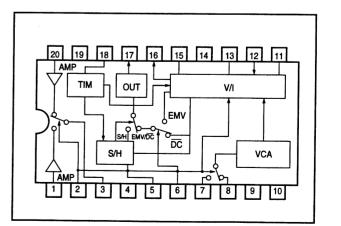
Pin No.	Symbol	Function		
1	GND	GND		
2	OSD	Output detect for short circuit		
3	VM	Power source for motor drive .		
4	VS	Control for motor drive		
5	MODE	Current/Voltage switching		
6	EC	Torque control		
7	ECR	Torque reference		
8	TL	Torque limited		
9	PCI	Output saturation prevent level (low level)		
10	PCV	Output saturation prevent level (high level)		
11	BRK	Break input H: Break L: Movement		
12	FR	Foward/Reverse CTL input		
13	PS	Power save H: Stand-by L: Movement		
14	VCC			
15	AMP OUT	Amplifire output		
16	AMP IN -	Amplifire input (-)		
17	AMP IN +	Amplifire input (+)		
18	PCH	Hole amp, AGC phase compareter		
19	RCC	Ripple cancel		
20	H3 -	Hole signal input		
21	H3 +	Hole signal input		
22	H2 -	Hole signal input		
23	H2 +	Hole signal input		
24	H1 -	Hole signal input		
25	H1 +	Hole signal input		
26	A1H	Pre motor drive output		
27	A2H	Pre motor drive output		
28	A3H	Pre motor drive output		
29	A1	Motor drive output		
30	A2	Motor drive output		
31	A3	Motor drive output		
32	RNF	GND for motor drive		



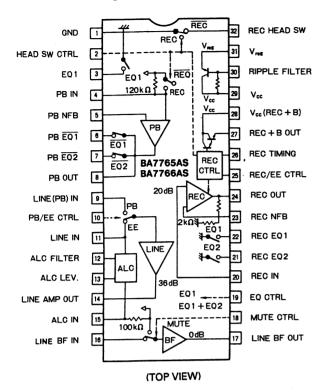
■ BA7043FS-X [ROHM] (VTR Auto Tracking Interface)



Pin No.	Function	Pin No.	Function
1	AUDIO FM IN	11	V/I RESISTOR
2	VFM/AFM CTL	12	SP/EP GAIN CTL
3	AMP OUT	13	CHARGED CAPACITOR
4	Not Connected	14	GND
5	HOLD CAPACITOR	15	EMV LEVEL ADJ.
6	DC/EMV CTL	16	EMV LEVEL DOWN
7	AUDIO FILTER IN	17	DC/EMV OUT
8	VIDEO FILTER IN	18	D F.F IN
9	VIDEO GAIN ADJ.	19	VCC
10	AUDIO GAIN ADJ.	20	VIDEO FM IN



■ BA7765AS [ROHM] (Normal Audio Signal Processor)



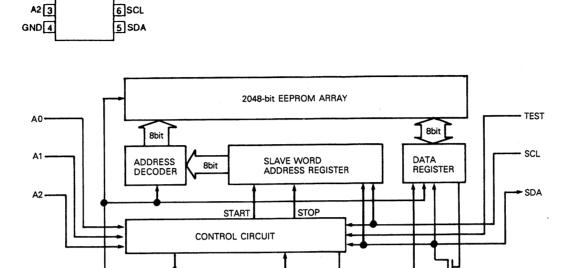
■ BR24C02F-X [ROHM] (IIC Bus 2k Serial EEPROM)

A1 2

8 Vcc

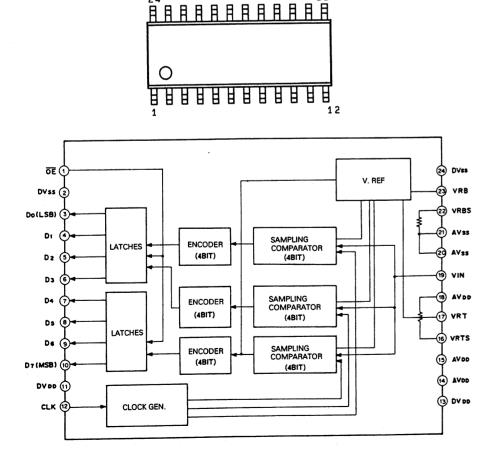
7 TEST

HIGH VOLTAGE GENERATOR

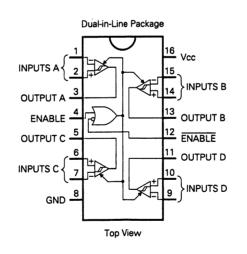


SUPPLY VOLTAGE DETECTOR

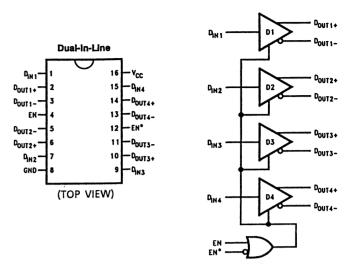
CXD1175AM-X [SONY] (8-Bit 20MSPS Video A/D Converter)



DS26C32ATM-X [National Semi Conductor] (Quad Differential Line Receiver)



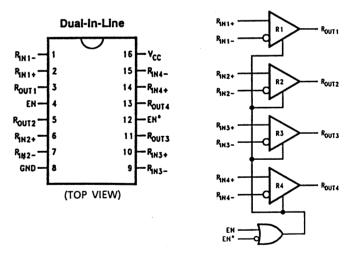
■ DS90C031TM-X [NATIONAL SEMICONDUCTOR] (Low Voltage Differential Signaling Quad CMOS Differential Line Driver)



•	п	I۷	-	п

Ena	bles	Input	Out	puts
EN	EN*	D _{IN}	D _{OUT+}	D _{OUT} _
L	н	х	Z	Z
All other combi	nations	L	L	Н
of ENABLE inpo	uts	Н	Н	L

■ DS90C032TM-X [NATIONAL SEMICONDUCTOR] (Low Voltage Differential Signaling Quad CMOS Differential Line Receiver)



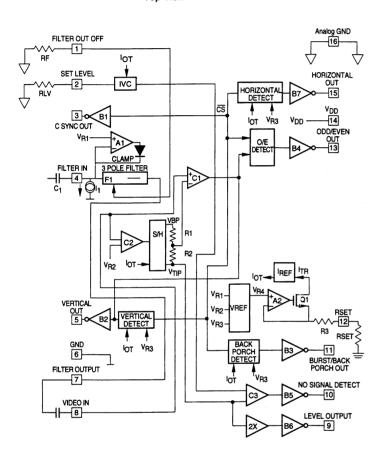
RECEIVER

ENA	BLES	INPUTS	OUTPUT	
EN	EN*	R _{IN+} R _{IN-}	Rout	
L H		X	Z	
All other combi		V _{ID} ≥ 0.1V	н	
of ENABLE inputs		V _{ID} ≤ −0.1V	L	
		Full Failsafe OPEN/SHORT or Terminated	н	

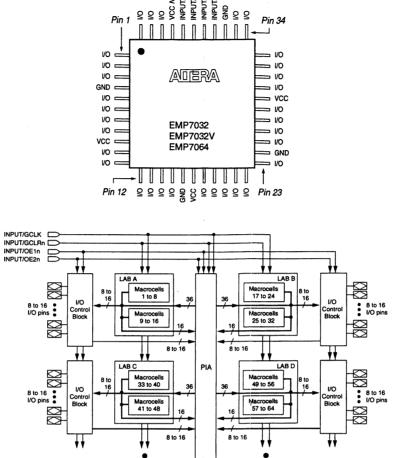
■ EL4583CS-X [ELANTEC] (Video Sync Separator)

16 ANALOG GND FILTER CUT OFF 1 15 HORIZONTAL SYNC. OUTPUT SET DETECT LEVEL 2 14 VDD COMPOSITE SYNC. OUTPUT 3 FILTER INPUT 4 13 ODD/EVEN OUTPUT 12 RSET VERTICAL SYNC. OUTPUT 5 11 BACK PORCH CLAMP GND 6 10 NO. SIGNAL DETECT. OUTPUT FILTER OUTPUT 7 9 LEVEL OUTPUT VIDEO INPUT 8 Note: R SET must be a 1% resistor.

Top View

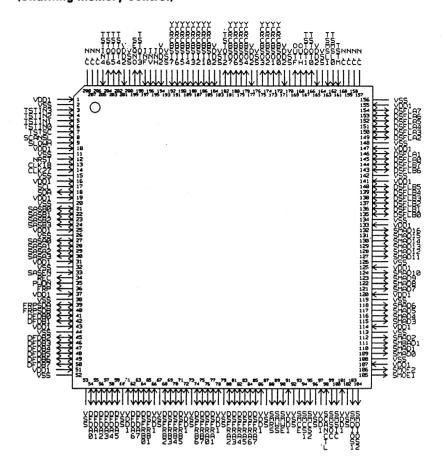


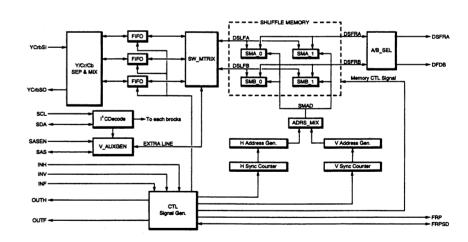
■ EPM032VT-20-001 [ALTERA] (Erasable Programable Logic Devices)



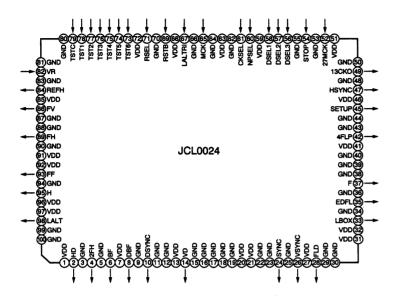
■ EPM064-15-003 [ALTERA] (Refer to EPM032VT-20-001.)

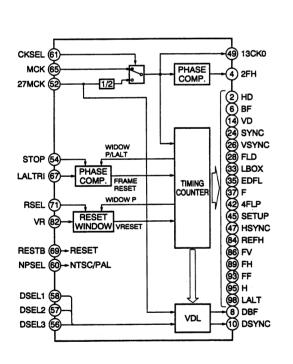
■ JCL0028 [JVC] (Shuffling Memory Control)





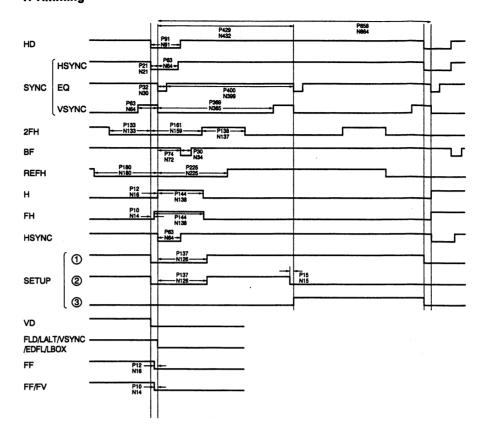
■ JCL0024 [JVC] (Sync Signal Gennerator)



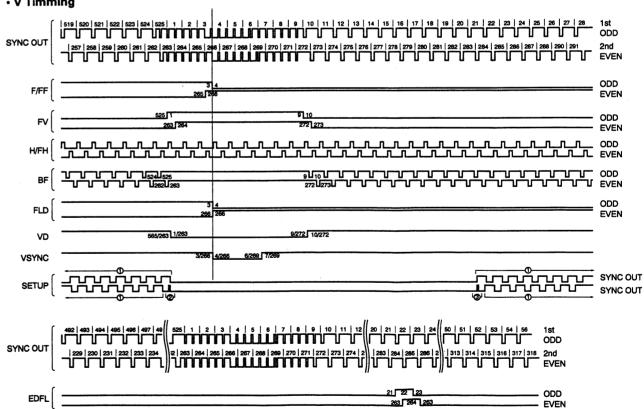


Pin No.	Name	1/0	Function		
2	HD O		Horizontal drive pulse output.		
4	2FH	0	Double fH frequency pulse output.		
6	BF	0	Burst flag pulse output.		
8	DBF	0	Variable delayed burst flag pulse output.		
10	DSYNC	0	Variable delayed sync signal output.		
14	VD	0	Vertical drive pulse output.		
24	SYNC	0	Composite sync output.		
26	VSYNC	0	Vertical sync output.		
28	FLD	0	Field index pulse output.		
33	LBOX	0	Letter box output for EDTV2 and PAL plus.		
35	EDFL	0	Flag window output for EDTV2 and PAL plus.		
37	F	0	Field index pulse output.		
42	4FLP	0	Four field sequence pulse output.		
45	SETUP	0	Setup pulse output for video signal setup.		
47	HSYNC	0	Horizontal sync signal output.		
49	13CKO	0	1/2 count-down of 27 MHz (13.5 MHz) pulse output.		
52	27MCK	1	27 MHz clock input.		
54	STOP	1	Set the LALTRI input terminal. L : Not used, H : used		
56	DSEL3	1	Set the delay timing of DSYNC and DBF signal.		
57	DSEL2	1			
58	DSEL1	1			
60	NPSEL	1	NTSC/PAL select. L : NTSC, H : PAL		
61	CKSEL		Set the input clock frequency. L: 13.5 MHz, H: 27 MHz		
65	MCK		13.5 MHz clock input.		
67	LALTRI		Line alternated reset input.		
69	RSTB	1	Power on reset. L : reset		
71	RSEL	1	Set the V-reset mode, L: MODE 1, H: MODE 2		
73	TEST6		Test signal input.		
74	TEST5		Connect the GND.		
75	TEST4	1			
76	TEST3		•		
77	TEST2	1			
78	TEST1	1			
79	TESTC				
82	VR	0	V-reset pulse input		
84	REFH	0	Reference pulse output for HPLL		
86	FV	0	FV pulse output		
89	FH	0	FH pulse output		
	FF	0	FF pulse output		
95	Н	0	H pulse output		
98	LALT	0	Line alternated signal output for PAL.		

• H Timming

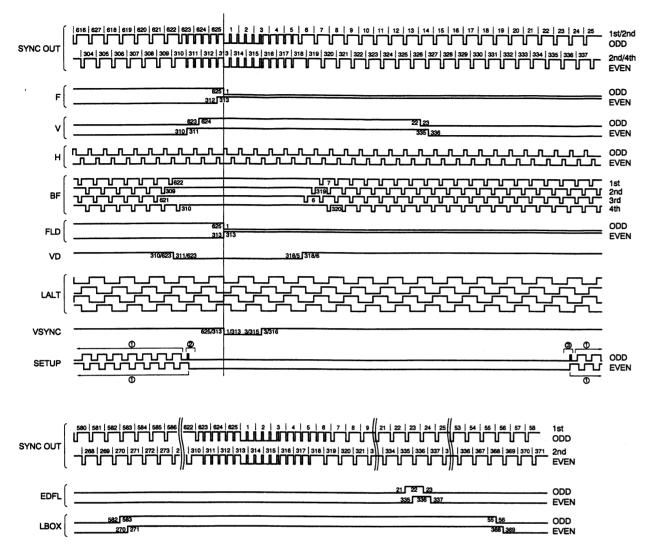


V Timming

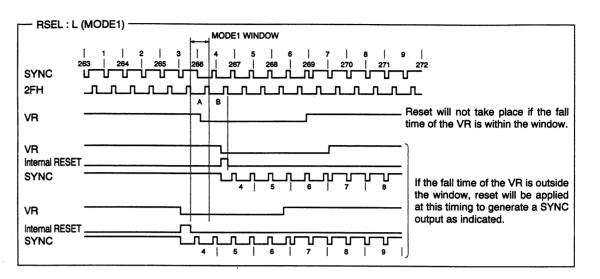


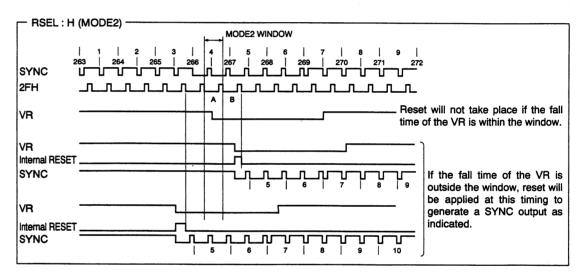
ODD

• V Timming (PAL)

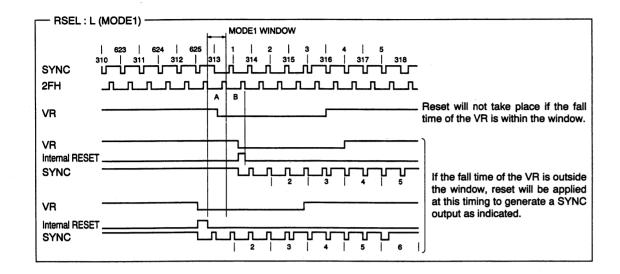


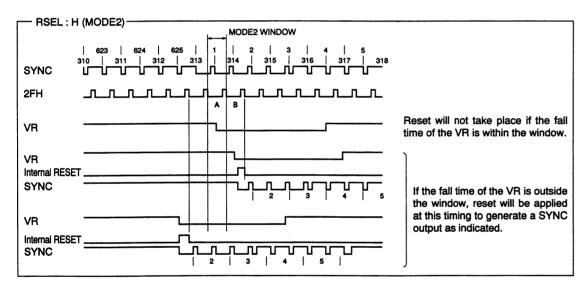
• V Reset (NTSC)



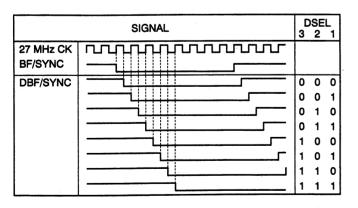


· V Reset (PAL)

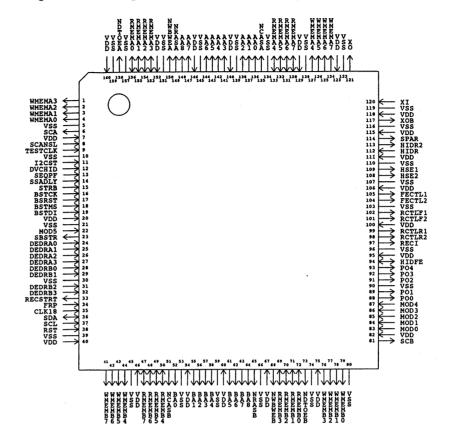




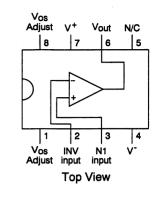
• D SYNC, DBF

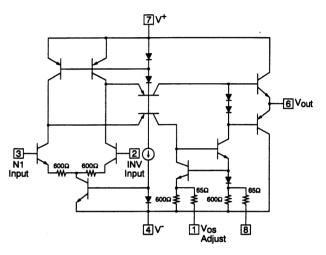


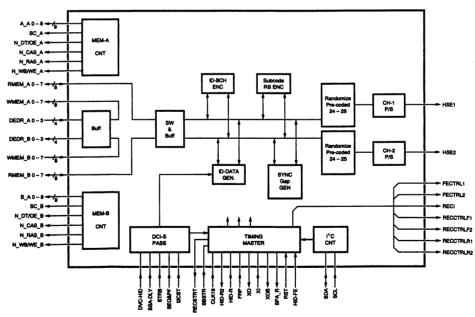
■ JCL0029 [JVC] (Digital Channel Integrated Circuit (DCI) for Recoding)



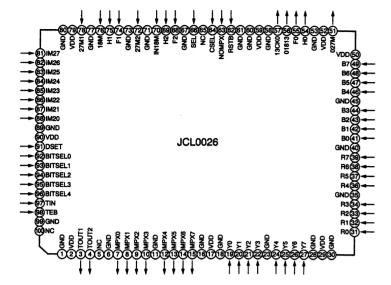
■ LM6361M-X [NATIONAL SEMICONDUCTOR] (High Speed Op. Amplifier)







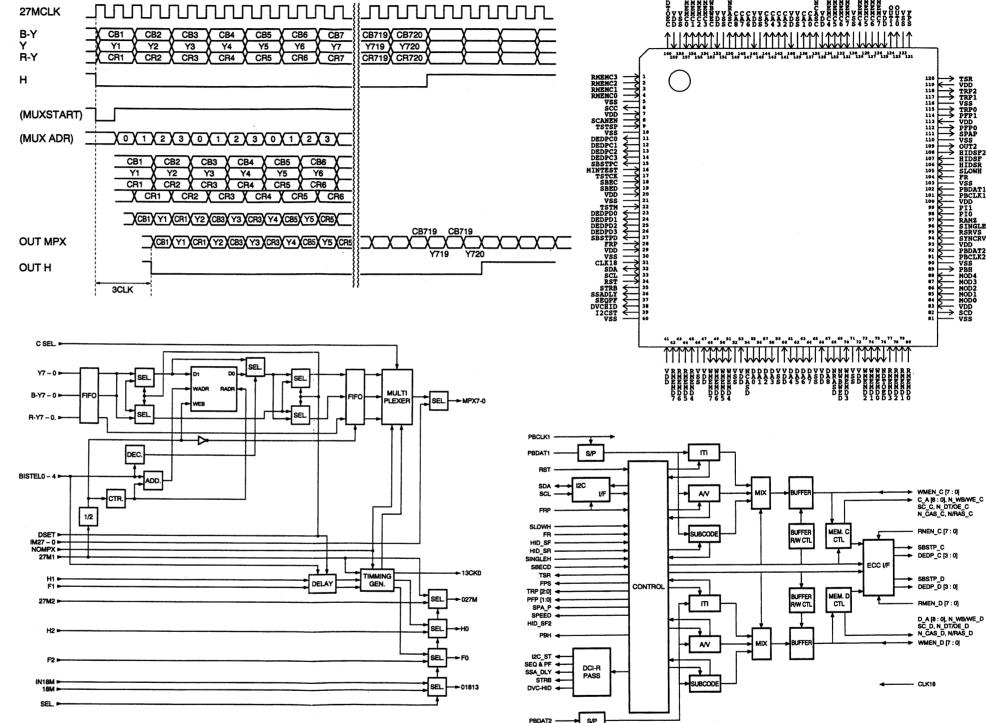
■ JCL0026 [JVC] (8-bit Multiplexer of Digital Component Signal)



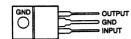
NC : Not Connected

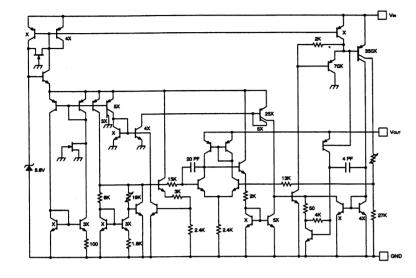
Pin No.	Name	1.00	Function
		1/0	
3, 4	T OUT 1, 2	0	Test terminals of internal RAM. Nomally open.
7-10, 12-15	MPX0-7	0	8 bit multiplexer outputs.
19-22, 24-27	Y0-7	1.	8 bit digital Y signal inputs.
31-34, 36-39	R0-7		8 bit digital R-Y signal inputs.
41-44, 46-49	B0-7	1	8 bit digital B-Y signal inputs.
51	027M	0	27 MHz clock output.
54	H0	0	H pulse output.
55	F0	0	Field index pulse output.
56	01813	0	18 MHz clock output.
57	13CKO	0	27/2 MHz (13.5 MHz) clock output.
62	RSTB	1	Reset signal input.
63	NOMPX	1	Multiplexer ON/OFF input. (H : ON, L : OFF)
64	CSEL	1	8-bit digital signals input select. (H : Component, L : Y/C)
66	SEL	T	Clock outputs select. (H: 27M1, H1, F1, IN18M outputs, L: 27M2, H2, F2, 18M outputs)
68	F2	П	Field index pulse input. (from digital I/O)
69	H2		H pulse input. (from digital I/O)
70	IN18M	1	18 MHz clock input. (from digital I/O)
72	27M2		27 MHz clock input. (from digital I/O)
74	F1	1	Reference Field index pulse input.
75	H1		Reference H pulse input.
76	18M	1	Reference 18 MHz clock input.
78	27M1		Reference 27 MHz clock input.
81-88	IM27-20	1	Multiplex data inputs. (from digital I/O)
91	DSET	1	Data set timing pulse input. (H : B-Y, R-Y, L : Y)
92-96	BITSEL0-4	1.	Phase shift data for input signal
97	TIN	-	Test terminal of internal RAM. Nomally open.
98	TEB	I	Test terminal of internal RAM. Nomally open.

■ JCL0030 【JVC】
(Digital Channel Integrated Circuit (DCI) for Playback)

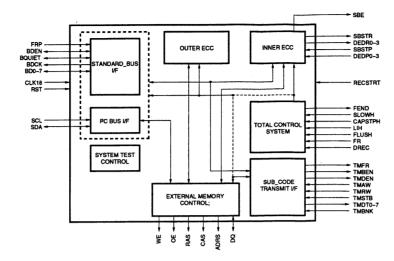


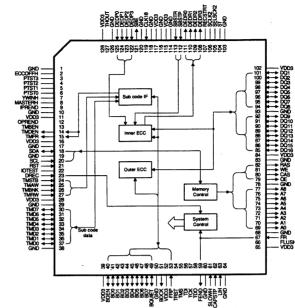
■ LM2940S-5.0-W [NATIONAL SEMICONDUCTOR] (+5V Low Drop-Output Positive Voltage Regulator)



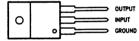


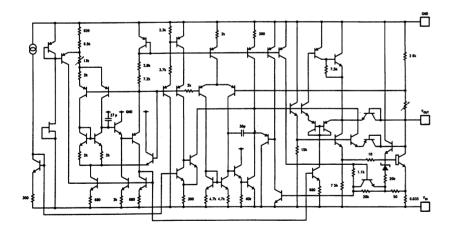
■ L7A1433 [LSI LOGIC] (Error Correcting Codes (ECC))



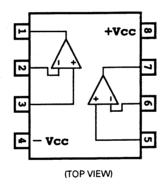


■ LM2990S-5.0-W [NATIONAL SEMICONDUCTOR] (-5V Low Drop-Output Negative Voltage Regulator)





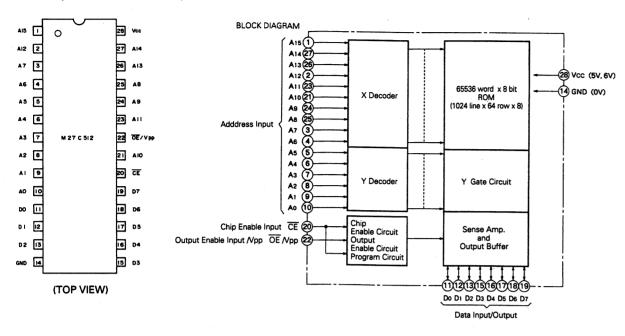
M5216FP-X [MITSUBISHI] (Dual Op Amp.)



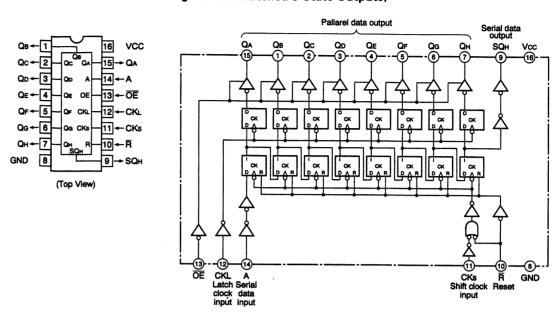
Pin No.	Label	In/Out	Description
1	GND	T -	Ground
2	ECCOFFH	-	Not used (Low fixed)
3	PTST3	-	Not used (Low fixed)
4	PTST2	T -	Not used (Low fixed)
5	PTST1	-	Not used (Low fixed)
6	PTSTO	-	Not used (Low fixed)
7	TWINH	T-	Not used (Low fixed)
8	MASTERH	-	Not used (Low fixed)
9	IPREND	-	Not used (Low fixed)
10	GND	1 -	Ground
11	VDD3	-	Power supply (+3V)
12	OPREND	-	Not used
13	TMBEN	T -	Not used
14	TMDEN	Out	Communication enable of sub code bus
15	TMFR	Out	Frame detect (1st track: H)
16	VDD3	-	Power supply (+3V)
17	GND	1-	Ground
18	SDA	In/Out	Data for IIC
19	GND	-	Ground
20	sal	in	Clock for IIC
21	RST	ln	System reset
22	IOTEST	-	Not used (High fixed)
23	DREC	in	Signal REC: H
24	TMSTB	In	Data strobe of sub code bus
25	TMAW	In	Address strobe of sub code bus
26	TMBNK	in	Bank select
27	TMRW	In	Read/Write of sub code bus (Write: H)
28	VDD3	-	Power supply (+3V)
29	GND	-	Ground
30	TMDT7	In/Out	
31	TMDT6	In/Out	
32	TMDT5	In/Out	
33	TMDT4	In/Out	Adderss and data of sub code bus
34	TMDT3	in/Out]
35	TMDT2	in/Out	
36	TMDT1	In/Out	
37	TMDT0	In/Out]
38	GND	-	Ground
39	VDD3	-	Power supply (+3V)
40	BDEN	In/Out	DV bus data enable
41	BD0	In/Out	
42	BD1	In/Out	DV bus data (9 MHz/8 bit)
43	BD2	In/Out	
44	BD3	in/Out	1

Pin No.	Labei	In/Out	Description
45	BD4	In/Out	
46	BD5	In/Out	DV bus data (9 MHz/8 bit)
47	BD6 BD7	In/Out	
49	BQUIET	In/Out	DV bus busy
50	GND	-	Ground
51	BDCK	Out	DV bus data clock (9 MHz)
52	VDD3	-	Power supply (+3V)
53	FRP	In	Frame pulse
54	TRST	-	-
55	TMS	-	-
56	TDI		
57	TCK	<u> </u>	
58	TDO FEND	-	
59	GND	Out	Frame end pulse for slow and still Ground
61	SLOWH	In	Slow mode flag (Slow mode: H)
62	CAPSTP	In	Capstan stop flag (Capstan stop mode: H)
63	LIH	in	Interval slow or linear slow flag (Linear slow mode: H)
64	GND	-	Ground
65	VDD3	-	Power supply (+3V)
66	FLUSH	-	Data transition pulse for field advance (Not used)
67	FR	In	Capstan foward/reverse (REV: H)
68	GND	-	Ground
69	A0	Out	(A0: LSB)
70	A1 A2	Out	1
72	A3	Out	· · · · · · · · ·
73	A4	Out	Memory address (9 MHz)
74	A5	Out	'
75	A6	Out]
76	A7	Out	
77	A8	Out	(A8: MSB)
78	GND	<u> </u>	Ground
79	OE	Out	Memory output enable (active: L)
80	CAS WE	Out	Mernory column address strobe
82	RAS	Out	Memory write enable (active: L) Memory row address strobe
83	GND	-	Ground
84	VDD3	-	Power supply (+3V)
85	DQ16	In/Out	(DQ16: MSB)
86	DQ15	In/Out	Memory data (16 bit)
87	DQ14	In/Out	
88	DQ13	In/Out	
89	DQ12	In/Out	
90	DQ11 DQ10	In/Out	Memory data (16 bit)
91	DQ10	In/Out	
93	GND	III CUI	Ground
94	DQ8	In/Out	
95	DQ7	in/Out	
96	DQ6	In/Out	Memory data (16 bit)
97	DQ5	In/Out	
98	DQ4	In/Out	
99	DQ3	In/Out	1
100	DQ2	In/Out	
101	DQ1	In/Out	(DQ1: LSB)
102	VDD3 GND	<u> </u>	Power supply (+3V) Ground
104	ST	+÷	Not used (Low fixed)
105	SELSCK2	-	Not used (Low fixed)
106	SCLK2	-	Not used (Low fixed)
107	RECSTRT	In	REC track start pulse
108	DEDR3	Out	(DEDR3: MSB)
109	DEDR2	Out	REC data to DCI (9 MHz/4 bit)
110	DEDR1	Out	1
111	DEDR0	Out	(DEDR0: LSB)
112	SBSTP	l In	Sync. block start pulse (PB)
113	GND	In -	Sync. block start pulse (REC) Ground
115	VDD3	+ :	Power supply (+3V)
116	GND	-	Ground Supply (437)
117	VDD3	-	Power supply (+3V)
118	GND	-	Ground
119	CLK18	In	System clock input (18 MHz) from CLK OSC IC (IC401)
120	GND	-	Ground
121	SBE	Out	Sync block error
122	DEDP3	In	(DEDP3: MSB)
123	DEDP2	ln .	PB data from DCI (9MHz/4 bit)
124	DEDP1	tn	(DEPART CD)
125	DEDP0 GND	in	(DEDP0: LSB)
126	THOUT	÷	Rot used
128	VDD3	ΗĒ	Power supply (+3V)

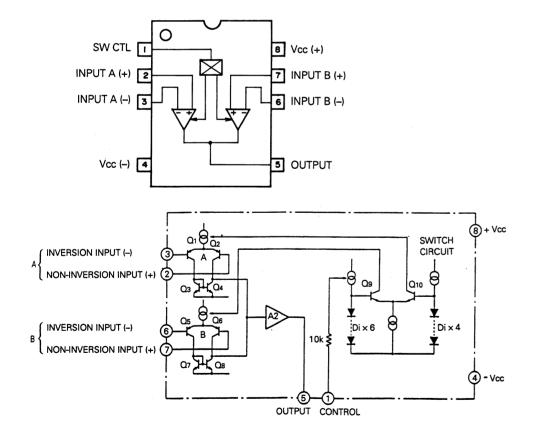
■ PLSL1019 [JVC] (512k Byte One Time P-ROM)



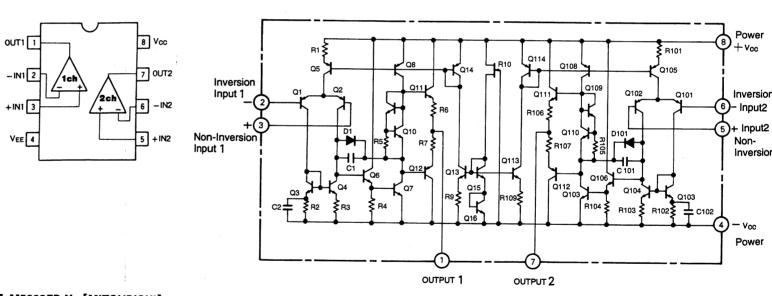
■ M66312FP-X [MITSUBISHI] (8 Bit LED Driver with Shift Register and Latched 3-State Outputs)



■ M5201FP-X [MITSUBISHI] (Switch Op Amp.)



■ M5218AFP-X [MITSUBISHI] (Dual Op.Amp)



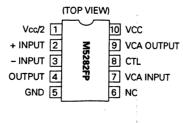
Inversion

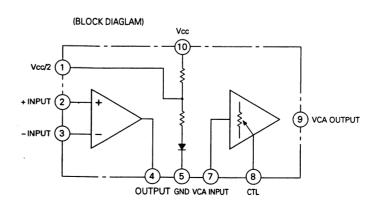
Non-

Power

Inversion

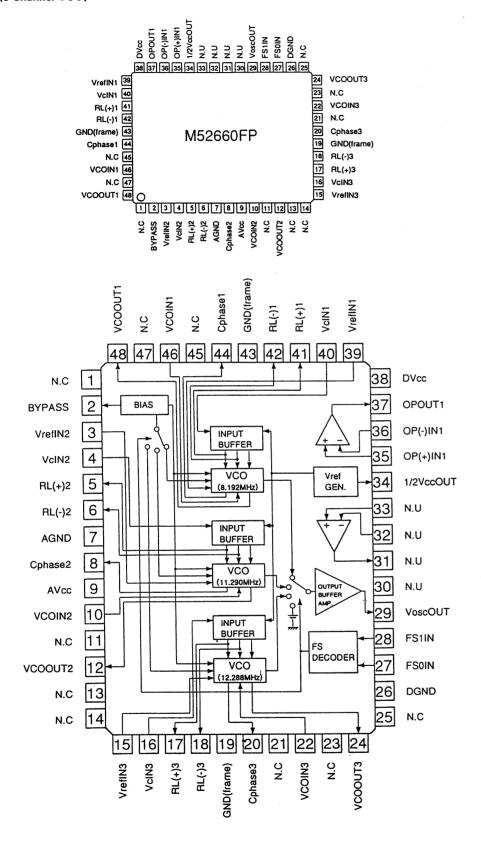
■ M5282FP-X [MITSUBISHI] (VCA and Op Amp.)



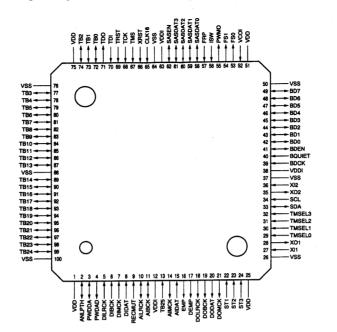


4-60

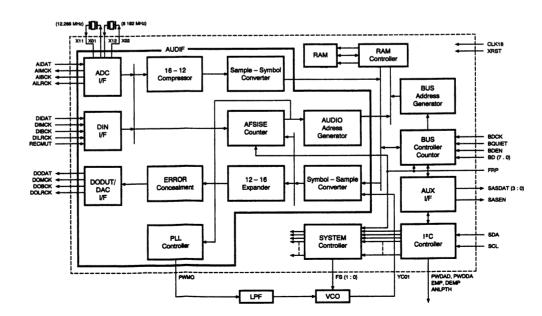
M52660FP [MITSUBISHI] (3 Channel VCO)



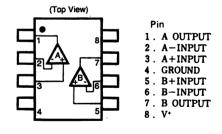
■ M65401FP [MITSUBISHI] (Digital Signal Processor for Audio Signal)



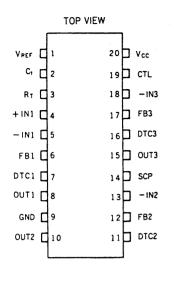
1	Pin Number	Pin Name	Function	NO.	Pin Number	Pin Name	Function	
2	1	VDD	Outer Power	-	51	VDD	Outer Power	-
PWDAD	2	ANLPTH	Analog loop through(H:through)	В	52	VCOI	VCO clock input for PLL	1
S	3	PWDDA	Power down for DAC(L:power down)	В	53	FS[0]	Fs select for VCO	0
Second	4	PWDAD	Power down for ADC(L:power down)	0	54	FS[1]	Fs select for VCO	0
	5	DILRCK	L/R clock from Digital In	1	55	PWMO	Phase comparator output of PLL	0
B	6	DIBCK	Bit clock from Digital In	1	56	ISW	1mA or 4mA Change Control ("H"4mA,"L"1mA)	T
9 RECMUT Rec Data Mute	7	DIMCK	Master clock from Digital in	T	57	FRP	Frame Start from Shuffling	ī
10	8	DIDAT	Serial Data from Digital In	1	58	SASDAT[0]	Line Data to/from Shuffling	В
10	9	RECMUT	Rec Data Mute	T	59	SASDAT[1]	Line Data to/from Shuffling	В
12	10	AILRCK	L/R clock for ADC	В	60		Line Data to/from Shuffling	В
12	11	AIBCK	Bit clock for ADC	В	61	SASDAT[3]	Line Data to/from Shuffling	В
14 AMMCK Master cit for ADC(256 fs) 0 64 VSS GND		VDDI	Inner Power	-	62		Line Data Enable to Shuffling	В
15	13	TB(25)	Test Bus		63	VDDI	Inner Power	-
18	14	AIMCK	Master clk for ADC(256 • fs)	0	64	VSS	GND	-
18	15	AIDAT	Serial Data from ADC	П	65	CLK18	Master clock (18MHz)	ī
17		EMP	ADC emphasis control	6				T
18		DEMP		Ы	67			1
19								Ť
20								T
21 DOMCK Master clock for DAC/D-OUT(256 *fs) C				6				1
22 ST1 Scan Test Mode Select(Lenable) 1 72 TB[0] Test Bus 73 TB[1] Test Bus 74 TB[2] Test Bus 74 TB[2] Test Bus 75 VDD Outer Power -1 75 VDD Outer Power -1 76 VSS GND 77 TB[3] Test Bus 76 VSS GND 77 TB[3] Test Bus 78 VSS GND 79 TB[4] Test Bus 78 TB[4] Test Bus 78 TB[4] Test Bus 78 TB[5] Test Bus 78 TB[6]		_						0
23 ST2 Scan Test Clock				П				В
24 ST3 Scan Test Data Input				1			Test Bus	В
25	24	ST3	Scan Test Data Input		74		Test Bus	В
26				-				1-
27 X1				1-1				-
28			12 288MHz X'tal port(48kHz)	11				В
29 TMSEL[0] Test Mode Select								В
30 TMSEL[1] Test Mode Select 1 80 TB[6] Test Bus 81 TB[7] Test Bus 82 TMSEL[2] Test Mode Select 1 82 TMSEL[2] Test Mode Select 1 82 TB[8] Test Bus 82 TB[8] Test Bus 83 TB[9] Test Bus 83 TB[9] Test Bus 83 TB[9] Test Bus 84 TB[10] Test Bus 85 TB[11] Test Bus 85 TB[11] Test Bus 85 TB[11] Test Bus 86 TB[10] Test Bus 86 TB[10] Test Bus 86 TB[10] Test Bus 86 TB[11] Test Bus 86 TB[11] Test Bus 87 TB[13] Test Bus 88 VSS GND					· · ·		В	
31 TMSEL[2] Test Mode Select		· · ·						В
32 TMSEL[3] Test Mode Select	31							В
33 SDA 12C data line B B B3 TB[9] Test Bus 34 SCL 12C clock line I B4 TB[10] Test Bus 35 XO2 8.192MHz X1al pont(32xHz) I B6 TB[11] Test Bus 36 XI2 8.192MHz X1al pont(32xHz) I B6 TB[12] Test Bus 37 VSS GND -								В
34 SCL I2C clock line I				-				В
35				H				В
36				0				В
37 VSS GND								В
Section Sect						<u> </u>		В
BDCK DVC bus clock B8 TB[14] Test Bus	_			-		<u> </u>		1-
40 BOUIET DVC bus control 1 90 TB[15] Test Bus 91 TB[16] Test Bus 92 TB[17] Test Bus 92 TB[17] Test Bus 93 TB[18] Test Bus 94 TB[18] Test Bus 94 TB[18] Test Bus 95 TB[20] Test Bus 95 TB[20] Test Bus 96 TB[21] Test Bus 96 TB[21] Test Bus 97 TB[20] Test Bus 98 TB[21] Test Bus 98 TB[21] Test Bus 99 TB[22] Test Bus 98 TB[22] Test Bus 98 TB[22] Test Bus 98 TB[23] Test Bus 98 TB[23] Test Bus 98 TB[23] Test Bus 99 TB[24] Test Bus 90 TB[24] Test Bus 90 TB[24] Test Bus 90 TB[24] Test Bus 90 TB[24] Test Bus 90 TB[24] Test Bus 90 TB[24] Test Bus 90 TB[24] Test Bus 90 TB[24] Test Bus 90 TB[24]				Н				В
41				-				В
42 BD[0] DVC bus deta B 92 TB[17] Test Bus 93 TB[18] Test Bus 94 TB[19] Test Bus 94 TB[19] Test Bus 95 TB[20] Test Bus 96 TB[21] Test Bus 96 TB[21] Test Bus 97 TB[22] Test Bus 98 TB[23] Test Bus 99 TB[24] T				В				B
43 BD[1] DVC bus deta B 93 TB[18] Test Bus 94 TB[19] Test Bus 94 TB[19] Test Bus 95 TB[20] Test Bus 96 TB[21] Test Bus 96 TB[21] Test Bus 96 TB[21] Test Bus 97 TB[22] Test Bus 98 TB[22] Test Bus 98 TB[23] Test Bus 98 TB[23] Test Bus 98 TB[23] Test Bus 98 TB[23] Test Bus 99 TB[24] T						<u> </u>		В
44 BD[2] DVC bus data B 94 TB[19] Test Bus 45 BD[3] DVC bus data B 95 TB[20] Test Bus 96 TB[21] Test Bus 96 TB[21] Test Bus 96 TB[21] Test Bus 97 TB[22] Test Bus 98 TB[23] Test Bus 98 TB[23] Test Bus 99 TB[24] Test Bus				-				В
45 BD(9) DVC bus deta B 95 TB[20] Test Bus 46 BD(4) DVC bus deta B 96 TB[21] Test Bus 47 BD(5) DVC bus deta B 97 TB[22] Test Bus 48 BD(6) DVC bus deta B 98 TB[23] Test Bus 49 BD(7) DVC bus deta B 99 TB[24] Test Bus								В
46 BD[4] DVC bus data B 96 TB[21] Test Bus				-				B
47 BD[5] DVC bus data B 97 TB[22] Test Bus 48 BD[6] DVC bus data B 96 TB[23] Test Bus 49 BD[7] DVC bus data B 99 TB[24] Test Bus				—		<u> </u>		В
48 BD[6] DVC bus data B 96 TB[23] Test Bus 49 BD[7] DVC bus data B 99 TB[24] Test Bus								В
49 BD[7] DVC bus data B 99 TB[24] Test Bus								В
				-				В
50 150 500 500 500				H				t-
	- 30	700	L	لــــا		100		

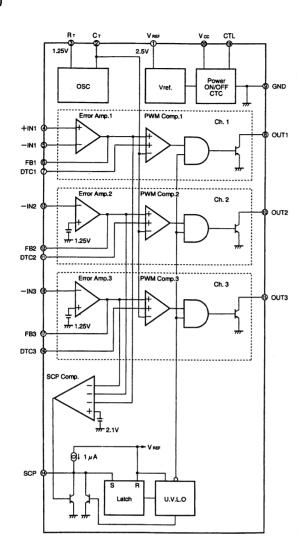


MC14577CF-X [MOTOROLA] (Dual Op.Amp)

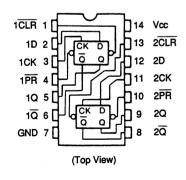


■ MB3782PF-X [FUJITSU] (Switching Regulator Controller)



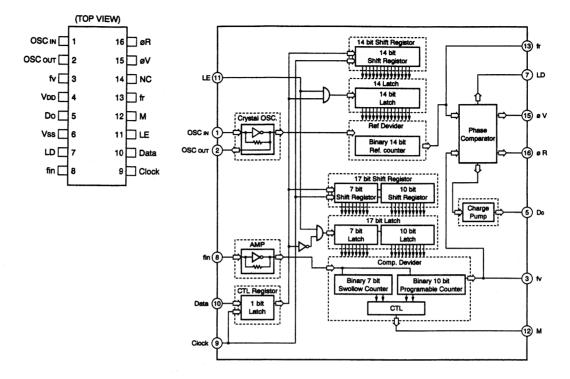


■ MC74HC74AF-X [MOTOROLA] (Dual D-Type Positive-EDGE-Triggered Flip-Flops With Preset AND Clear)

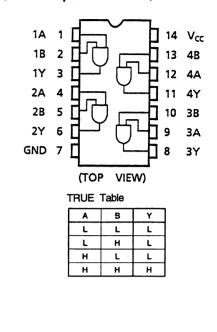


TRUE Table										
	INP	UTS		OUT	PUTS	FUNCTION				
CLR	PR	D	СК	Q	Q	FUNCTION				
L	Н	Х	Х	L	Н	CLEAR				
Н	ب	Х	Х	Н	L	PRESET				
L	لــ	· X	Х	Н	н	-				
Н	Н	L		L	Н	_				
Н	Н	Н	1	Н	L					
Н	Н	Χ	7_	Qn	Q,	NO CHANGE				
	X : Don't care									

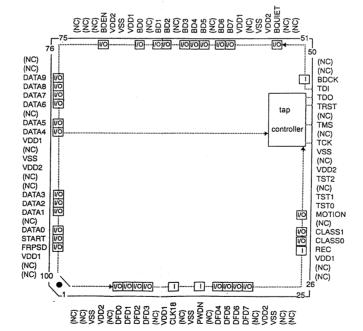
■ MB87087PF [FUJITSU] (Serial Input Phase Lock Loop Frequency Synthesizer)

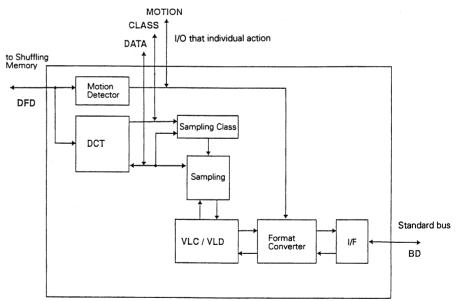


MC74HC08AF-X [MOTOROLA] (Quad 2-Input AND Gates)

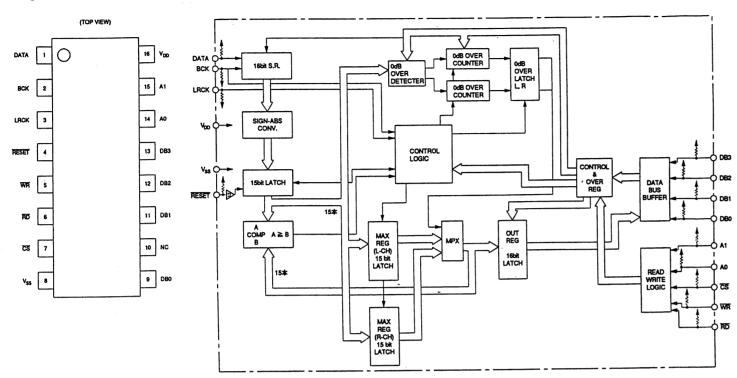


MN67371F [MATSUSHITA] (Video Compression/Decompression LSI)

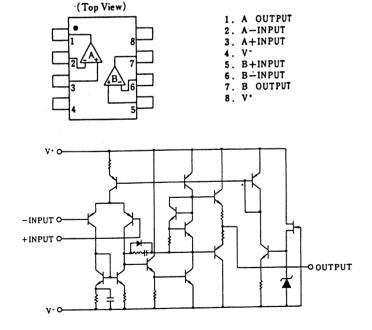




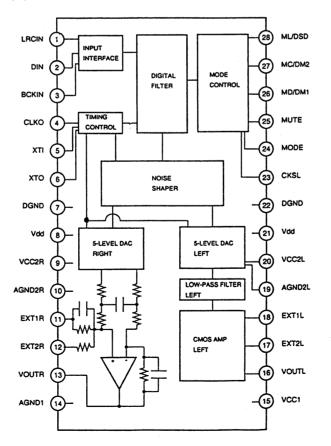
■ MSM6338MS-K [OKI] (Digital Peak Detector for PCM Audio)



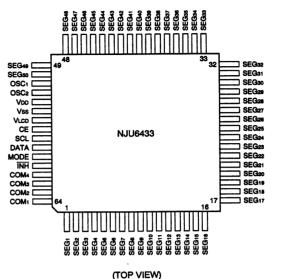
■ NJM2068M-D-X [JRC] (Dual Low-Noise Op.Amp)



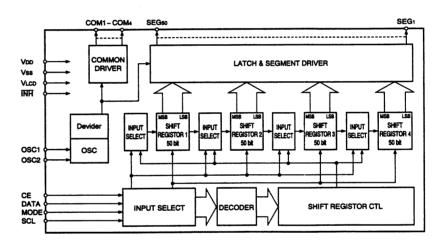
■ PCM1710U/G/-X [BAR BRAWN] (D/A Converter)



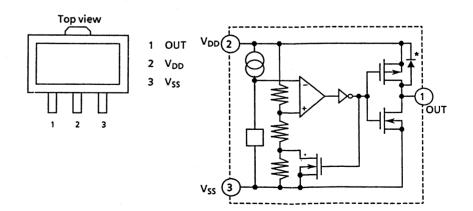
■ NJU6433FB2 [JRC] (1/4 Duty LCD Driver)



No.	Symbol	Function
1~50	SEG1~SEG50	Segment output for LCD driver
51	OSC1	OSC terminal
52	OSC2	OSC terminal
53	VDD	
54	VSS	GND
55	VLCD	Power source for LCD drive
56	CE	H level : Data input
ĺ		Drop-down edge : Data latch
		L level : Disable
57	SCL	Clock input for serial data trancefar.
58	DATA	Serial data input.
59	MODE	H level : Mode seting
		L level : Data input for LCD display
60	INH	L level : LCD is not display
		H level : LCD is display
61~64	COM4~COM1	Common output for LCD drive.



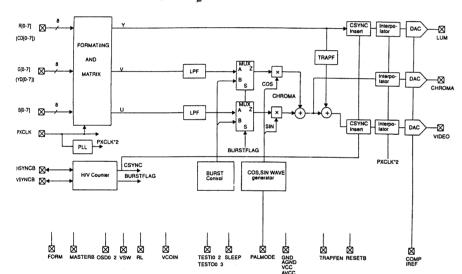
S-8054HN-CB-X [SEIKO INSTRUMENTS] (C-MOS Voltage Detector)



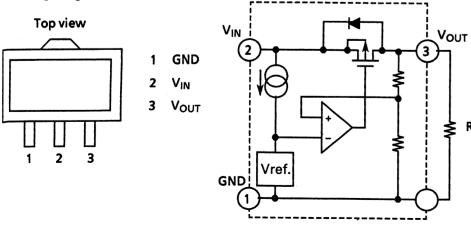
RL5C292-001 [RICOH] (Digital Video Encoder)

VIDEO LUM CHROMA AVCC SLEEP TESTOO TESTO1 VCOIN GND PALMODE MASTERB 87 86 85 84 83 82 81 80 TESTIO PXCLK VCC TESTO2 TESTO3

(TOP VIEW)

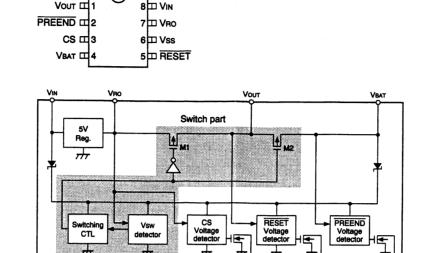


■ S-81224PG-PX-X [SEIKO] ■ S-81240PG-PJ-X [SEIKO] (Voltage Regulator)

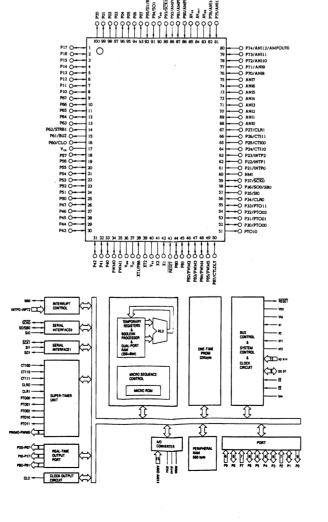


■ S-8420BF-X [SEIKO] (Battery Back-up Switching)

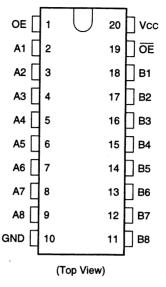
Top view



■ SC78148GF-026 [JVC] (8-Bit Micro Computer)

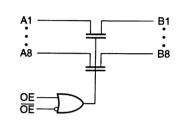


■ SN74CBT3245PW-X [TEXAS] (8 Bit Cross Bar Switch)



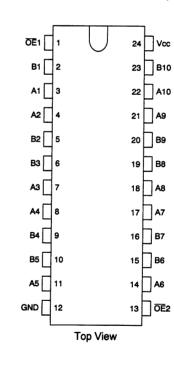
	Inp	uts	Inputs/Outputs
	OE OE		A, B
	X	L	A=B
	Н	X	A=B
Į	L	Н	Z

- H : High Level L : Low Level
- X : Don't Care
- Z : High Impedance



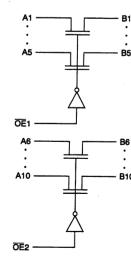
SN74CBT3384PW-X [TEXAS] (10 Bit Cross Bar Switch)

PREEND

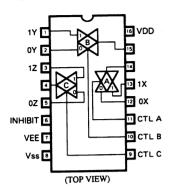


ŌĒ1	ŌĒ2	B1 - B5	B6 - B10	
L	L	A1 – A5	A6 - A10	
L	н	A1 – A5	z	
н	L	z	A6 – A10	
н	н	z	z	

- H: High Level L: Low Level X: Don't Care
- Z : High Impedance



TC4053BF-X [TOSHIBA] (Triple 2 Channel Analog Multiplexers/ Demultiplexers)



TRUTH TABLE

cor	NTROL	"ON" CHANNEL		
INHIBIT	С	В	A	4053BP 4053BF
L	L	L	L	0X, 0Y, 0Z
L	L	L	Н	1X, 0Y,0Z
L	L	Н	L	0X, 1Y, 0Z
L	L	Н	Н	1X, 1Y, 0Z
L	н	L	L	0X, 0Y, 1Z
L	Н	L	Н	1X, 0Y, 1Z
L	Н	Н	L	0X, 1Y, 1Z
L	Н	Н	Ή	1X, 1Y, 1Z
н	•	•	•	NOTE
* Do	n't Car	e,		

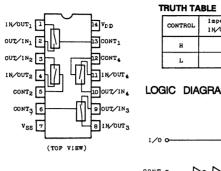
■ TC4S30F-X [TOSHIBA] (Single Exclusive OR Gate)



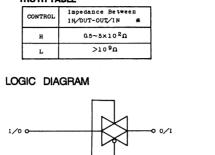
TRUE TABLE

INF	PUT	OUTPUT
Α	В	Х
L	L	L
L	н	н
н	L	н
н	Н	L
1		

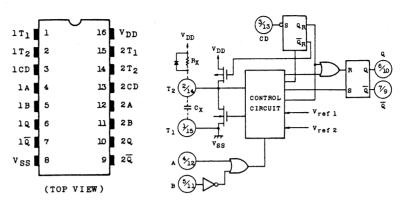
TC4066BF-X [TOSHIBA]



(Quad Bilateral Switch)



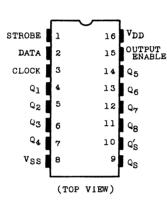
■ TC4538BF-X [TOSHIBA] (Dual Precision Monostable Multivibrator)



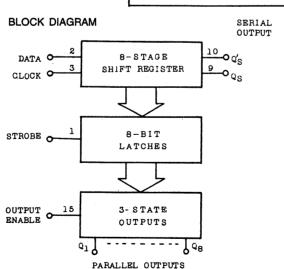
TRUTH TABLE

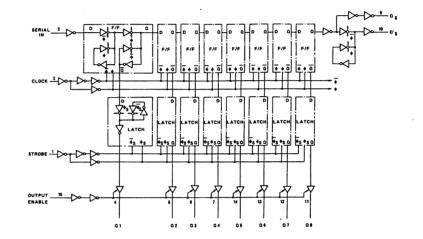
	INPU	JT OUTPUT		PUT					
A	В	CD	Q Q		NOTE				
5	н	н	U	L	OUTPUT ENABLE				
<u></u>	L	н	L	Н	INHIBIT				
н	L	н	L	н	INHIBIT				
L	1	н	Л	J	OUTPUT ENABLE				
	٠	L	L	н	INHIBIT				
Don't Care									

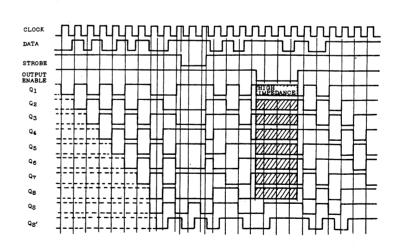
TC4094BF-X [TOSHIBA] (8 Stage Bus Compatible Shift/Store Register)



TRUTH	TABLE	•						
a .	OE	ST	am D		P0	8	0	
CL	OE	ST	D	Ql	Qn	QS	q_{S}	
4	H	Н	L	L	Q_n-1	Q ₇	NC	
4	Н	Н	Н	Н	Q _n -1	Q7	NC	
5	H	L	*	NC	NC	Q7	NC	
5	L	*	*	HZ	HZ	Q7	NC	
J.	Н	*	*	NC	NC	NC	QS	
٦	L	*	*	HZ	HZ	NC	QS	
CL=	Clock	ς.		3	* = Do:	ı't o	аге	
OE=	Outpu	ıt Er	able	. 1	NC=No	Chan	ge	
ST=Strobe HZ=High								
D = Data Impedan								
PO=Parallel Outputs								
SO=	Seria	1 Ou	tput					



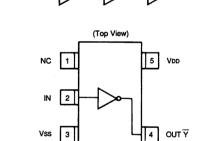




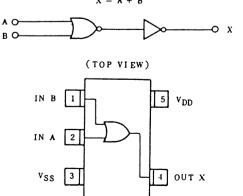
■ TC4S584F-X [TOSHIBA] (Schmitt Triggerd Single Inverte Gate)



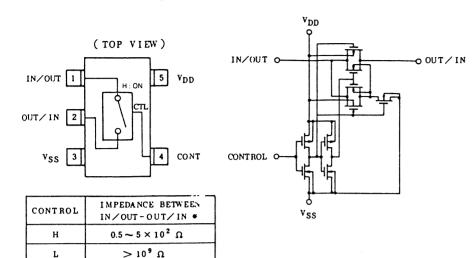
TC4S69F-X [TOSHIBA] (Inverter Gate)



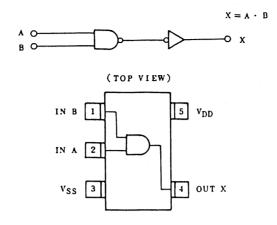
TC4S71F-X [TOSHIBA] (2-Input OR Gate)





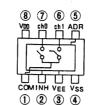


TC4S81F-W [TOSHIBA] (2-Input AND Gate)



TC4S81F-X [TOSHIBA] (Refer to TC4S81F-W.)

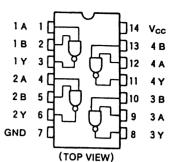
■ TC4W53F-X [TOSHIBA] (2-Channel Multiplexer)



| CONTROL | INPUT | ON CHANNEL | INH | ADR | L | Ch0 | L | H | Ch1

*Don't care

TC74HC00AF-X [TOSHIBA] (Quad 2-Input NAND Gates)

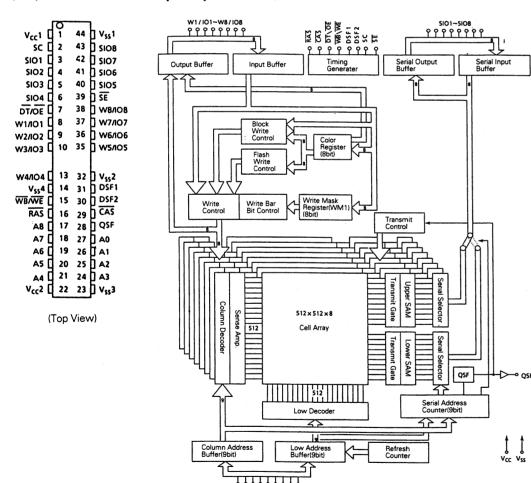


TRUE Table					
A	A B Y				
L	L	Н			
L	н	Н			
Н	L	Н			
Н	н	L			

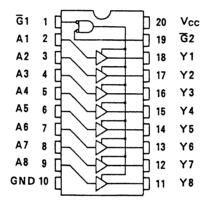
TC74HC08AF-X [TOSHIBA] (Refer to MC74HC08AF-X.)

■ TC528267FT-70-X [TOSHIBA] (262,144 word x 8 Bit Multiport Dynamic RAM)

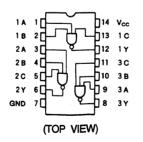
* See Electrical Characteristics



TC74ACT541F-X [TOSHIBA] (Octal Bus Buffer (3-State))

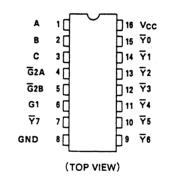


■ TC74HC107AF-X [TOSHIBA] (Triple 3-Input NAND Gates)



TRU	TRUE Table						
A	В	С	Υ				
L	Х	X	Н				
х	L	X	Н				
х	Х	L	Н				
H H H L							
X : Don't Care							

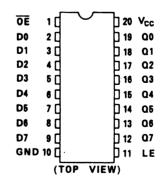
TC74HC138AF-X [TOSHIBA] (3-Line to 8-Line Decoders/Demultiplexers)



NONE

		INP	UTS						OUT	PUTS				
E	NABL	.E	S	ELEC	т									SELECTED OUTPUT
G1	G2A	G2B	С	В	A	₹o	₹1	₹2	₹3	¥ 4	∀ 5	₹ 6	₹7	
L	X	X	х	x	X	н	н	н	н	Н	н	н	н	NONE
X	н	X	х	X	X	Н	н	н	н	н	Н	н	н	NONE
X	X	н	X	X	X	н	н	н	н	н	н	н	н	NONE
H:	L	L	L	L	L	L	н	н	н	Н	н	н	н	Ÿ0
н	L	L	L	L	н	н	L	н	н	н	н	н	н	₹ 1
н	L	٦	L	н	L	н	н	L	н	н	н	н	н	Ÿ2
н	L	L	L	н	н	н	Н	Н	L	н	Н	н	н	7 3
н	L	L	н	L	L	н	н	н	н	L	н	н	н	Ÿ4
н	L	L	н	L	Н	н	н	н	н	н	L	н	н	₹5
н	L	L	Н	н	L	н	н	н	н	н	н	L	н	Ÿ6
н	L	L	Н	н	н	н	н	н	н	н	н	н	L	Ÿ7

■ TC74HC573AF-X [TOSHIBA] (Octal D-Type Latch With NON-Inverted 3-State Outputs)

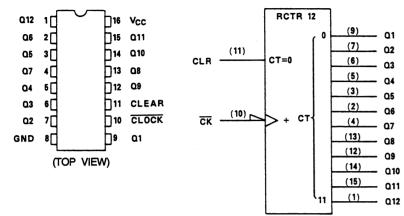


TRU	TRUE Table							
11	NPUT	S	OUTPUTS	1				
OE	LE	D	Q					
H	Х	X	HZ]				
د	۲	Х	Qn					
ب	H	L	L					
٦	Н	Н	Н					

X : Don't care.
Z : Hi impedance

Qn : Level of Q output before LE becomes "L".

■ TC74HC4040AF-X [TOSHIBA] (Synchronous 12-Bit Binary Ripple Counters)

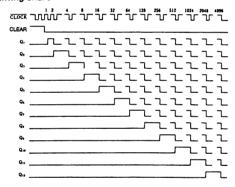


TRUTH TABLE

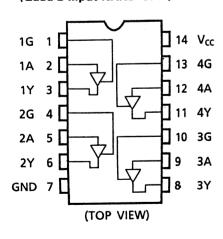
CLOCK	CLEAR	OUTPUT STATE
X	Н	ALL OUTPUTS = "L"
5	L	NO CHANGE
~L	L	ADVANCE TO NEXT STATE

X ; Don't care

Timing chart



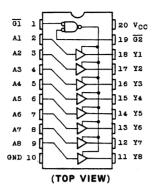
TC74VHC126F-X [TOSHIBA] (Quad 2-Input NAND Gate)



INP	UTS	OUTPUTS
G	Α	Y
L	Х	Z
Н	L	L
Н	Н	Н

X: Don't Care Z: High Impedance

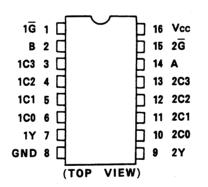
■ TC74HCT541AF-X [TOSHIBA] (Octal Bus Buffer With Inverted 3-State Outputs)



TRUE Table

	OUTPUT		
G ₁	G2	Α	Υ
L	L	Н	Н
L	L	L	L
Н	Х	Х	Z
Х	Н	Х	Z

TC74VHC153F-X [TOSHIBA] (Dual 4-Channel Multiplexer)

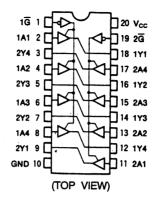


TRUTH TABLE

	PUTS DATA INPUTS			STROBE	OUTPUT Y			
В	A	CO	C1	C2	C3	Ğ	HC163A	HC253/
X	X	Х	X	X	X	H	L	Z
L	L	L	X	X	X	L	L	L
L	L	Н	X	X	X	L	Н	Н
L	Н	X	L	X	X	L	L	L
L	Н	X	Н	X	X	L	Н	Н
Н	L	X	X	L	X	L	L	L
Н	L	X	X	Н	X	L	Н	Н
Н	Н	X	X	X	L	L	L	L
Н	Н	X	X	X	Н	L	Н	Н

X : Don't Care Z : High Impedance

■ TC74LCX244F-X [TOSHIBA] (Low Voltage Octal Bus Buffer with 5V Tolerant Input And Outputs)

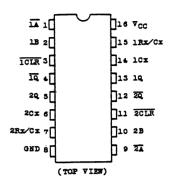


TRUE Table

INP	UTS	OUTPUTS
G	An	Ÿ'n
L	L	L
L	н	Н
Н	Х	Z

X : Don't Care Z : High Impedance

■ TC74VHC221AF-X [TOSHIBA] (Dual Monostable Multivibrators (With Schmitt Trigger Input))

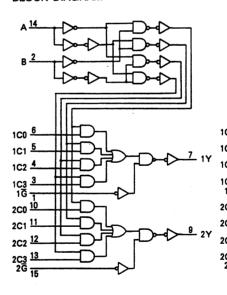


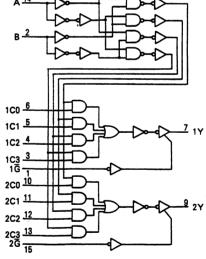
True Table

	INPU TS		OUTP	UTS	NOTE
Ī	В	CL	p	lσ	10.15
٦	H	H	7	5	OUTPUT ENABLE
x	L	H	L	H	INHIBIT
H	I	H	L	H	INHIBIT
L		Ħ	ζ	5	OUTPUT ENABLE
L	H	7	7	շ	OUTPUT ENABLE
I	I	L	L	H	INHIBIT

I : DON'T CARE

BLOCK DIAGRAM





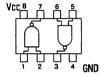
- TC74VHC244F-X [TOSHIBA] (Refer to TC74LCX244F-X.)
- TC74VHC541F-X [TOSHIBA] (Refer to TC74HCT541AF-X.)
- TC74VHC74F-X [TOSHIBA] (Refer to MC74HC74AF-X.)
- TC74VHCT541F-X [TOSHIBA] (Refer to TC74HCT541AF-X.)
- TC7S04F-X [TOSHIBA] (Inverter)

Pin arangement

NC 1 5 VDD

IN 2 4 OUT

TC7W00F-X [TOSHIBA]
(2 Input Dual NAND Gate)



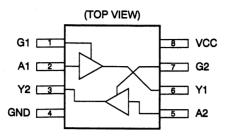
TRUE Table

Α	В	Х
L	L	Н
L	Н	Н
Н	L	Н
Н	Н	L

TC7W04F-X [TOSHIBA]
(Triple Inverter Gate)



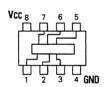
■ TC7W126FU-X [TOSHIBA] (Dual Bus Buffer)



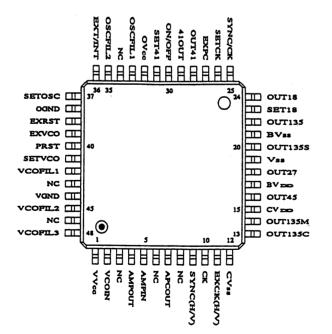
Truth Table

Trutti rabie							
INP	UTS	OUTPUTS					
G	Α	Υ					
L	X	Z					
Н	L	L					
Н	Н	Н					

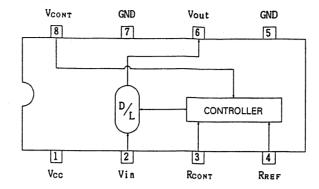
- X : Don't Cate Z : High Impedance
- TC7W74F-X [TOSHIBA] (D-Q Flip-Flop)



■ UPC2384GA [NEC] (Digital VTR PLL)

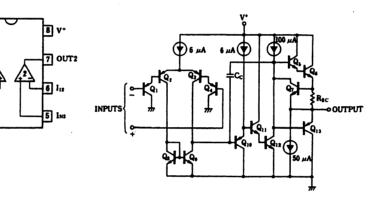


TK16031AMTL [TOKO] (Analog Delay line)



■ UPC358G2-X [NEC] (Dual Op.Amp.)

OUT1 1



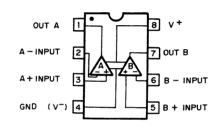
■ UPC393G2-X [NEC]

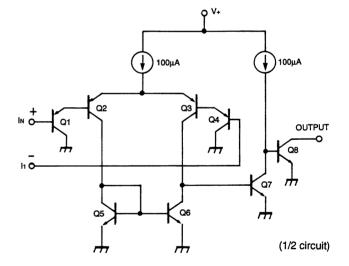
(Dual Comparator)

■ UPC4074G2-X [NEC]

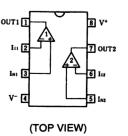
112

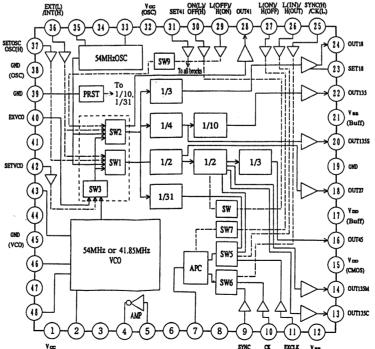
(Low Noise J-FET Quad Op.Amp.)



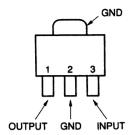


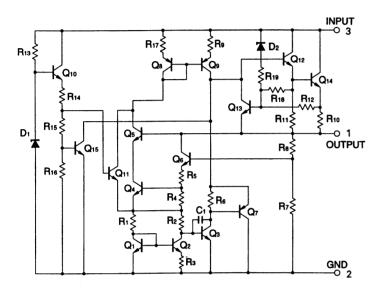
■ UPC4082G2-X [NEC] (J-FET Input Dual Op-Amplifire)



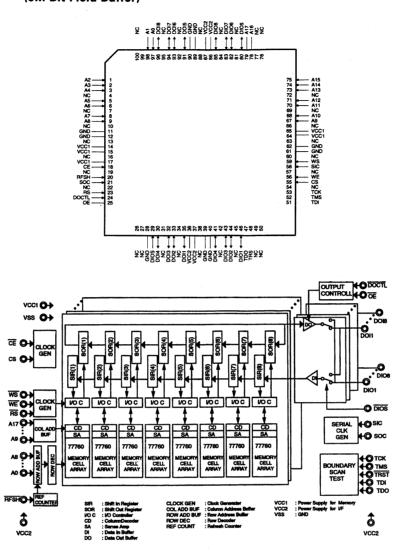


■ UPC78L05T-X [NEC] (Regulator)



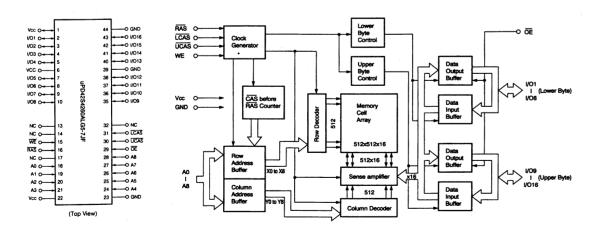


■ UPD489001 [NEC] (5M Bit Field Buffer)

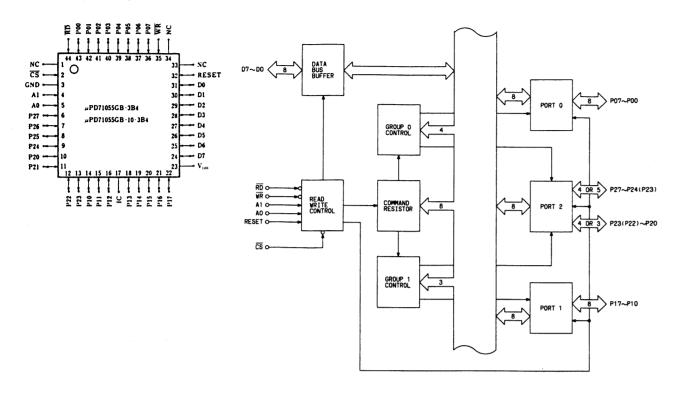


Pin No.	Label	In/Out	Description	Pin No.	Label	In/Out	Description	
1	A2	ěn		51	TDI	-		
2	A3	In	Shuffle memory address (18 MHz, 18 bit)	52	TMS	-		
3	A4	In		53	тск	-		
4	NC	—	Not used	54	NC	-	Not used	
5	A5	In		55	cs	-	High fixed	
6	A6	In	Shuffle memory address (18 MHz, 18 bit)	56	WE	In	Write enable from SHUFFLE IC	
7	NC	-	Not used	57	NC		Not used	
8	A7	in		58	SIC	ln .	Clock input (18 MHz)	
9	A8	In	Shuffle memory address (18 MHz, 18 bit)	59	WS	in in	Shuffle memory control write strobe	
10	NC	-	Not used	60	NC .	-	Not used	
11	GND	-	100	61	GND	-	10.00	
12	GND	-	Ground	62	GND	H :-	Ground	
13	NC	 - -	Not used	63	NC	H÷	Not used	
14	VCC1		TWA USEU		VCC1	<u> </u>	INOLUSEU	
15	VCC1	<u>├</u>	Power supply (+3 V)	64	VCC1	-	Power supply (+3 V)	
16	NC NC	⊢ :	Not used	66	NC NC	l -	Not used	
17	VCC1		NOT USED	1	A9		ITUL USBU	
18	CE	- In	Shuffle memory chip enable	67		ln -	Shuffle memory address (18 MHz, 18 bit)	
19	NC NC	in .	Not used	68	NC	In	Not used	
20	RESH	-	-	69	A11	<u> </u>	Not used	
21	SOC	- In	Clock input (18 MHz) from CLK OSC IC	70	A12	in in	Shuffle memory address (18 MHz, 18 bit)	
22	NC		Not used	71	NC			
23	RS	- In	Shuffle memory read strobe	72	A13		Not used	
24	DOCTL	in		73		In		
25	OE		Shuffle memory data output control Low fixed	74	A14	In In	Shuffle memory address (18 MHz, 18 bit)	
26	NC NC		Not used	75	A15	In		
27	NC NC	-	Not used	76	NC NC	-	Not used	
28	GND	H =	Ground	1	1	ļ <u></u>	Not used	
29	DIOS	- In	Shuffle memory data I/O select	78	A16	, In	Shuffle memory address (18 MHz, 18 bit)	
30	DOI4	In/Out		1	DIO5	In	0	
31	NC NC	-	Shuffle memory data (8 bit) Not used	80	NC NC		Shuffle memory data (8 bit)	
32	DOI3	In/Out	THOM USEC	81	DIO6	in/Out	Not used	
33	DOI2	In/Out	Shuffle memory data (8 bit)		DIO7		Shuffle memory data (8 bit)	
34	NC .	HVOUL	Not used	83	NC	in/Out	No.	
35	DOI1		Shuffle memory data (8 bit)	84	DIO8	-	Not used	
36	VCC2	IN/OUR	Shalle mentally uses to use	85	VCC2	In/Out	Shuffle memory data (8 bit)	
37	VCC2		Power supply (+3 V)	86	VCC2		Power supply (+3 V)	
38	NC NC		Not used	87		<u> </u>	No.	
39	GND	-	TWA 6000	88 89	NC GND	-	Not used	
40	GND		Ground	l			Ground	
41	DIO4	_	Shuffle memory data (8 bit)	90	GND DOIS	-	Ch. Ma manual data (D. hW)	
42	NC NC	invour	Not used	91	NC	In/Out	Shuffle memory data (8 bit)	
43	DICS	in/Out	IAN ROOM	92		-	Not used	
43	DIO2	In/Out	Shuffle memory data (8 bit)	93	DOI6	in/Out	Shuffle memory data (8 bit)	
			No.	94	DOI7	In/Out		
45	NC PICA		Not used	95	NC	-	Not used	
46	DIO1		Shuffle memory data (8 bit)	96	DOI8	In/Out	Shuffle memory data (8 bit)	
47	TDO	-	•	97	A0	In	Shuffle memory address (18 MHz, 18 bit)	
48	TRS		<u> </u>	96	A1	In	•	
49	NC		Not used	99	NC	-	Not used	
50	NC	-	Not used	100	NC	-	Not used -	

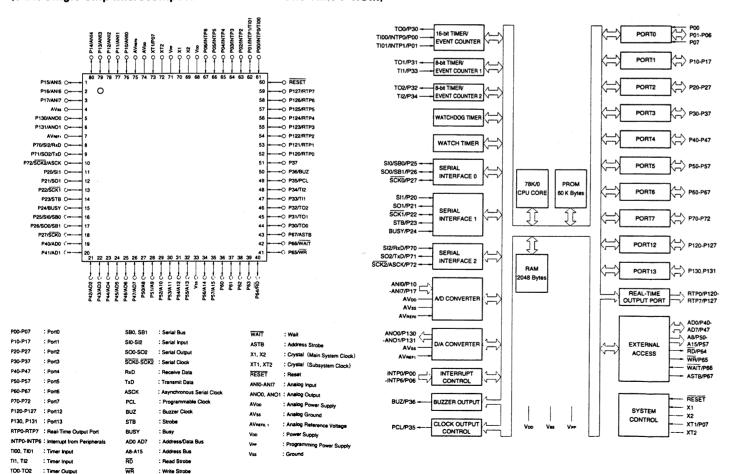
■ UPD42S4260ALG5 [NEC] (3.3V 4M Bit Dynamic RAM)



■ UPD71055GB-10 [NEC] (Parallel Input/Output Port)



■ UPD78P58YGC-3B9 [NEC] (8 Bit Single Chip Microcomputer with 60k Bite One Time P-ROM)

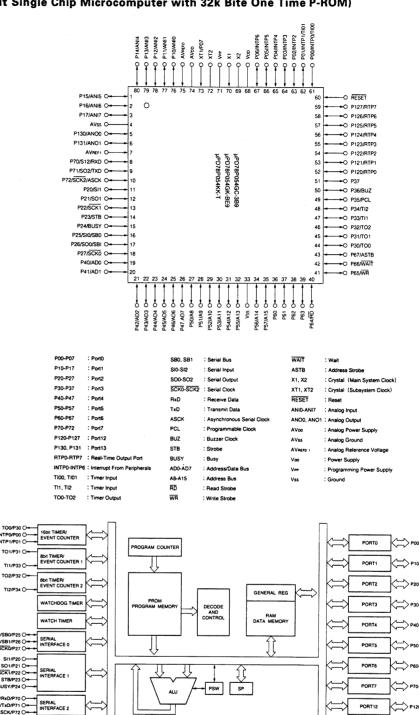


4-70

4-70

RTP0/P120 REAL-TIME OUTPUT PORT

■ UPD78P054GC-3B9 [NEC] (8 Bit Single Chip Microcomputer with 32k Bite One Time P-ROM)



SUB MAIN

PORT13

AB/P50-A15/P57

→O RD/P64

→○ WR/P65 →○ WAIT/P66

SECTION 5 EXPLODED VIEW AND ASSEMBLY LIST

SAFETY PRECATION

Parts identified by the Δ symbol are critical for safety. Replace only with specified parts numbers.

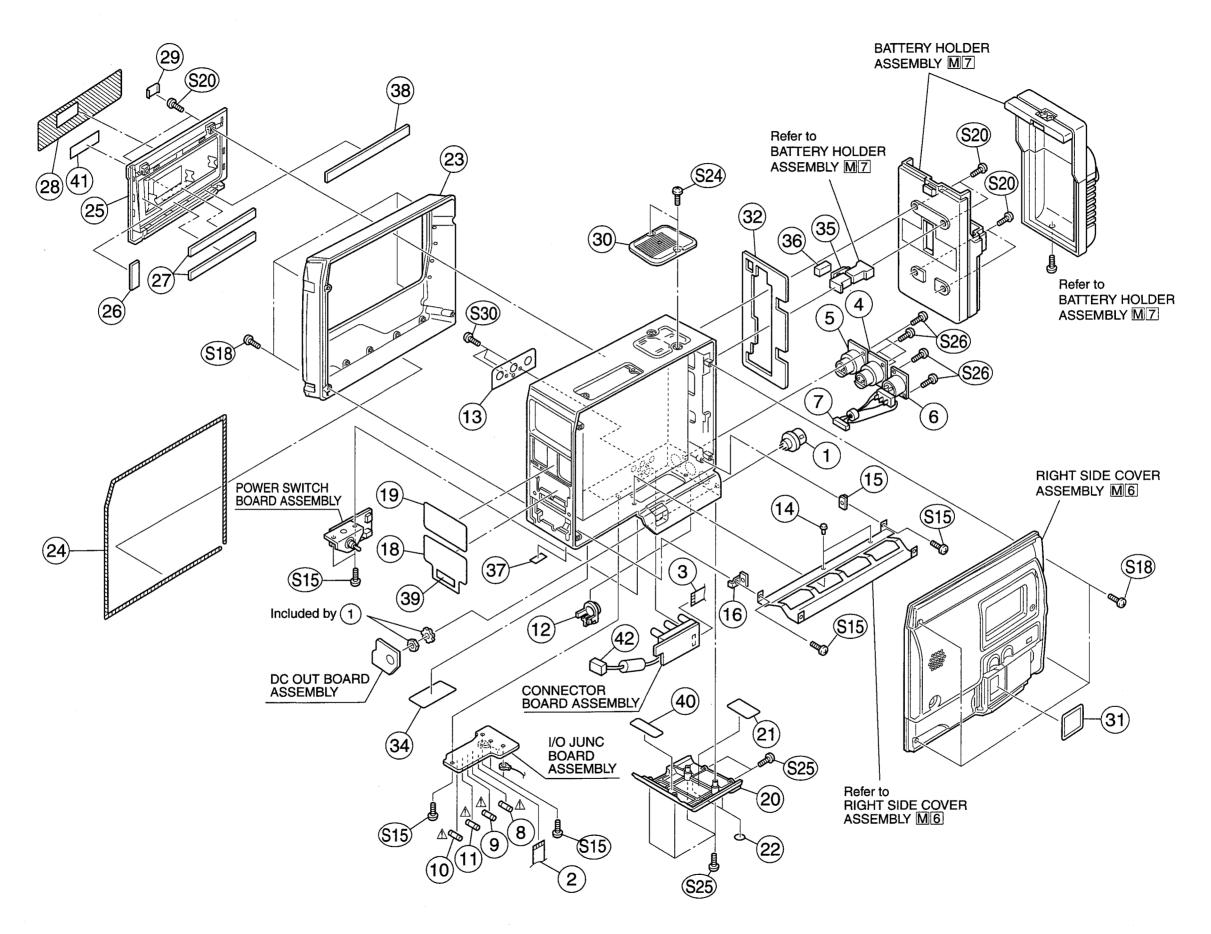
• NOTE

Parts not denoted by parts numbers are not supplied by JVC.

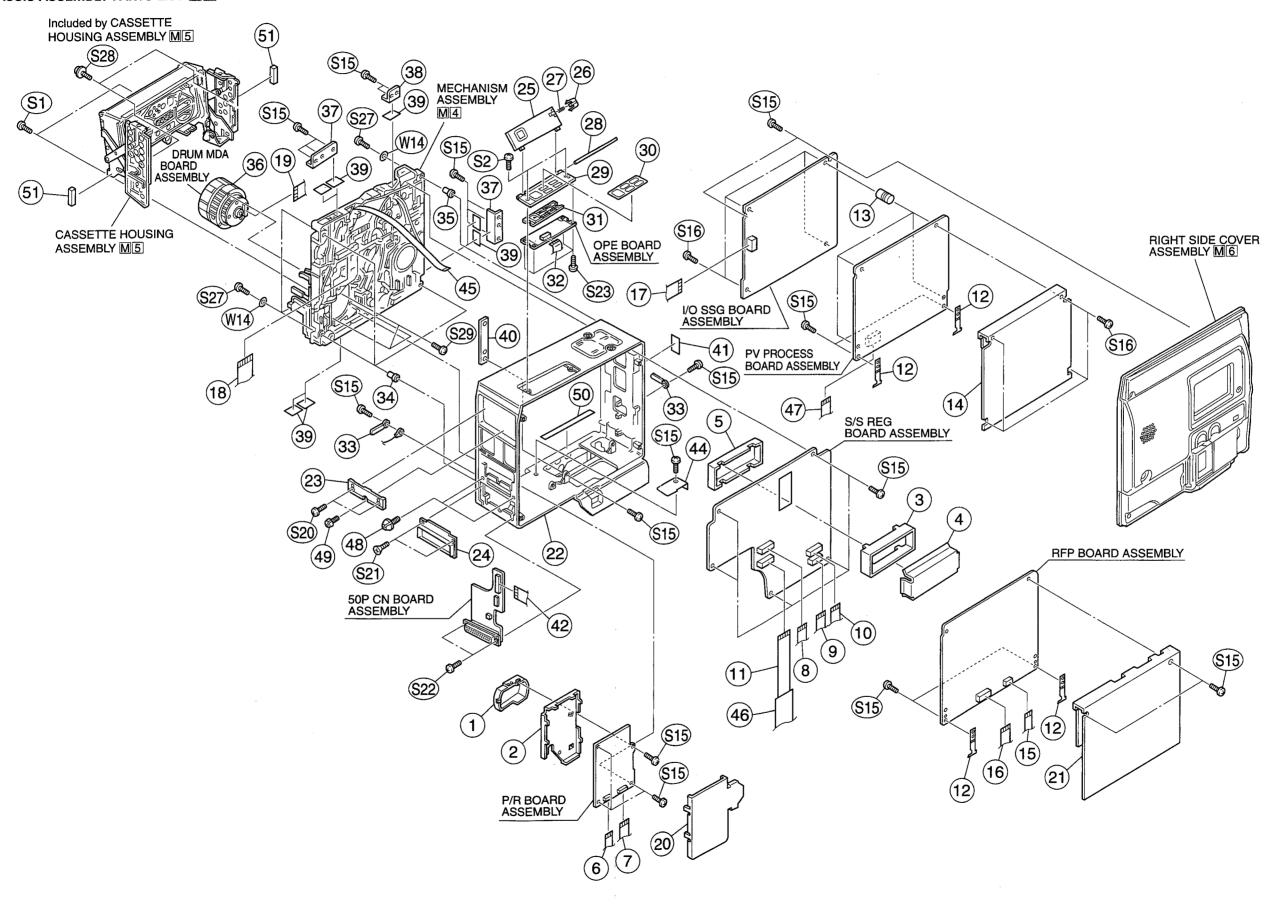
5.1 CABINET ASSEMBLY PARTS LIST M2

M 2	MM	}	1 11 1

Symb No.	ool	Part No.	Part Name	Description			
	1	SCV1836-S04	CONNECTOR				
	- 1	PGW0203-280100	FFC	AU7-IO/J5			
	- 1	PGW0204-260080	FFC	AU5-CNT1			
	i i	PGZ01953	XLR CONNECTOR	7.00 0			
			XLR CONNECTOR				
		PGZ01953					
		PGZ02527	DC IN CONN(4P)				
١.	- 1	MLSL076A	DC IN WIRE				
$ \Delta$	8	QMF51U1-4R0	FUSE	(U) 4 A, 125 V F301			
$ \Delta$		QMF51A2-4R0	FUSE	(E) 4 A, 250 V F301			
\triangle	9	QMF51U1-2R5	FUSE	(U) 2.5 A, 125 V F302			
Δ		QMF51A2-2R5	FUSE	(E) 2.5 A, 250 V F302			
Δ	10	QMF51U1-2R0	FUSE	(U) 2.0 A, 125 V F303			
Φ		QMF51A2-2R0	FUSE	(E) 2.0 A, 250 V F303			
Δ	11	QMF51U1-R40	FUSE	(U) 400 mA, 125 V F304			
Δ		QMF51A2-R40	FUSE	(E) 400 mA, 250 V F304			
	12	PRD44883	LENS	(2) 100 1111 () 200 (
		PRD44879-01-02	PLATE (CONN)				
	13		l e e e e e e e e e e e e e e e e e e e				
		PU53276	PLASTIC RIVET				
	- 1	PRD44896	STAY(1)				
	16	PRD44897	STAY(2)				
	18	PRD44899	PLATE(2)				
	19	PRD44898	PLATE(1)				
	20	PRD10357-01-04	BOTTOM COVER				
	21	PRD44994	CAUTION LABEL 1	(U)			
		PRD44994-02	CAUTION LABEL 1	(E)			
	22	PRD30090	FOOT	101			
	23	PRD10353	SIDE COVER(L)				
			f				
	24	PRD44992	SHIELD TUBE				
	25	PRD10356-01-02	CASSETTE PANEL				
	$\overline{}$	PRD30030-156	PAD				
	27	PRD30030-157	PAD				
	28	PRD30896-09	WINDOW	(E)			
		PRD30896-07	WINDOW	(U)			
	29	PRD44259	CAP				
	30	PRD31276-01-02	COVER (TOP)				
	31	PRD44880	PLATE(DOOR)				
	32	PRD44882	PAD(REAR)				
	34		RATING LABEL				
	- 1	- MLSL051A-5	BATTERY CABLE 1				
	- 1		1 -				
-		MLSL051A-4	BATTERY CABLE 2				
			STICKER				
		PRD45091	SHEET				
-		PU49729-2	LABEL 1	(U)			
1	40	PU58760	CAUTION LABEL 2	(U)			
	41	PRD45092-02	LABEL 2				
	42	MLSL051A-1	WIRE ASSEMBLY	With Ferrite core			
5		SDSP2605Z	SCREW	M2.6x5			
1	T I	SC43397-010	SCREW				
1		SDSP3008M	SCREW	M3x8			
1		SDSP4006M	SCREW	M4x6			
	_	_					
1		SDSP2608M	SCREW	M2.6x8			
1		SPSP2606N	SCREW	M2.6x6			
5	S30	SDSF3008M	SCREW	M3x8			
ļ							



5.2 CHASSIS ASSEMBLY PARTS LIST M3



5-4

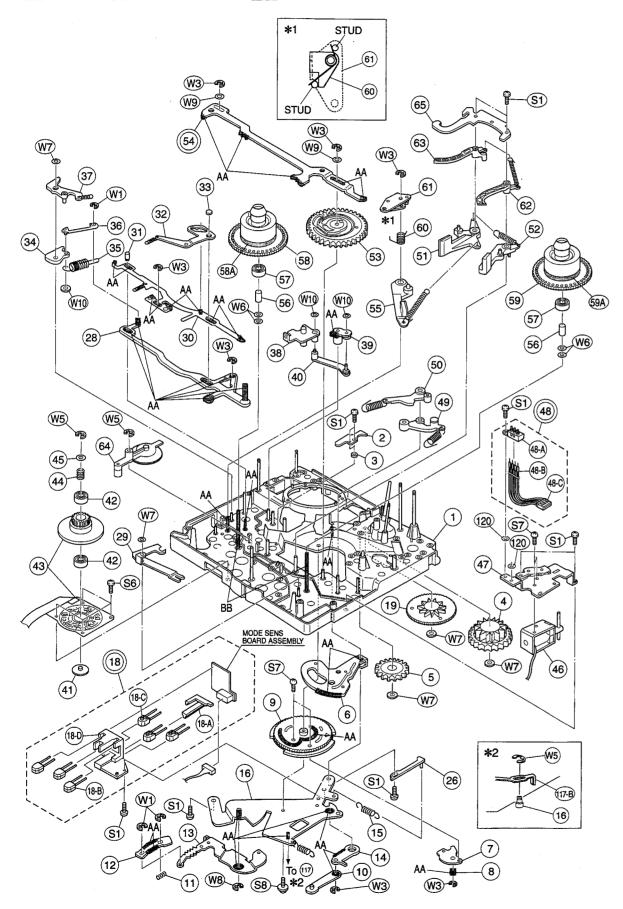
5-4

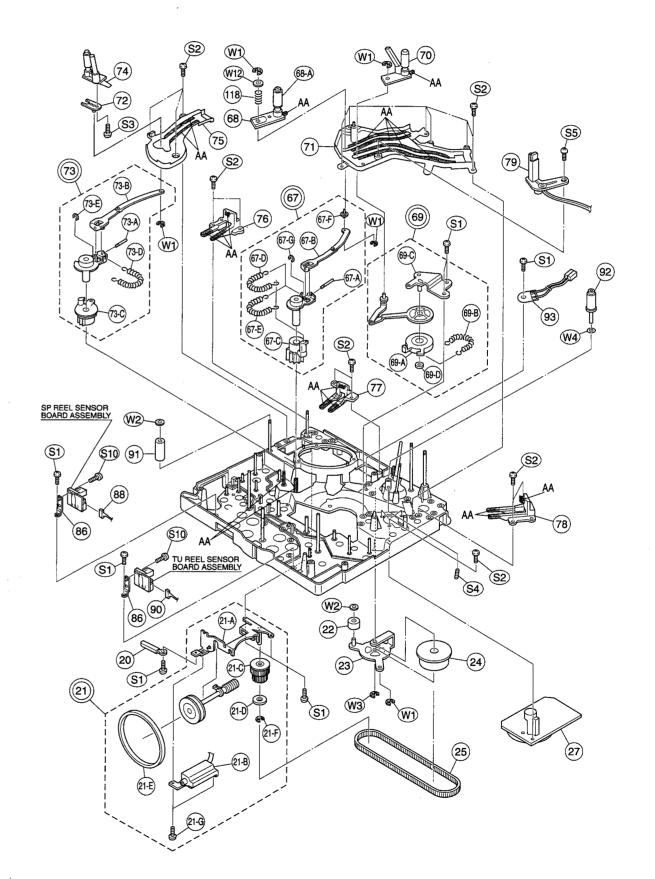
M3MM

Symbol No.	Part No.	Part Name	Description
1	PRD31279	DRUM SHIELD	
2	PRD31280	P/R SHIELD(A)	
3	PRD44902	SHIELD CASE	
4	PRD44903	SHIELD COVER	
5	PRD44904-01-01	SHIELD PLATE	
6	PGW0204-070110	FFC	RF101-P/R1
7	QUQ0208-2810CE	FFC	P/R6-PV6
8	PGW0206-160220	FFC	PV10-S/S4
9	PGW0206-120240	FFC	PV2-S/S11
_	QUQ0208-3007CE	FFC	RF604-S/S12
11	QUQ0208-3024CE	FFC	AU8-S/S13
12		BOARD HOLDER	
13		DODGE BET	
14		SHIELD PLATE(2)	
	PGW0204-100080	FFC	RF603-I/SSG3
	PGW0204-100220	FFC	RF501-PV4
17		FFC	I/SSG-PV1
18	i	FFC	M. IF-S/S1
	PGW0206-050170	FFC	P/R2-DRUM
20		P/R SHIELD(B)	1,,,,,
21	PRD31235	SHIELD PLATE(1)	
22	PRD10352-01-02	MAIN FRAME	
23	SC30988-003	CAMERA GUIDE	
23	PRD31273-01-02	COVER(50PIN)	
25		DOOR(OPE)	
26		KNOB(DOOR)	
27	PRD30023-53	COMPRESS SPRING	
28	ì	SHAFT	
26 29	PRD31228-01-02	HOLDER	
30	l	PLATE(OPE)	
31	PRD31233	KNOB(OPE)	
32	PGW0203-140100	FFC	OPE-S/S3
33	1	WIRE CLAMP	31 2 3/33
	PRD44884	COLLAR(1)	
	PRD44885-01-02	COLLAR(2)	
	PDR2012A	DRUM ASSEMBLY	
		BRACKET(1)	
	PRD44983-01-02	BRACKET(2)	
	PRD44984-01-02	PAD PAD	
	PRD30030-159	STAY(BOARD)	
	PRD44901	LABEL	
	PRD44925	FFC	RF605-50P201
	PGW0206-170200 PRD45083	WIRE CLAMP	111 000-001 201
	PGW0206-120100	FFC	DRUM MDA-S/S9
	1	INSULATOR	DITOWN WIDA 0/00
	PRD45040	FFC	AU4-PV12
	PGW0204-060150	STUD(A)	AU4-7 V 12
	PRD44894	I	
	PRD44895	STUD(B)	
	PRD30030-163	PAD PAD	
	PRD30030-162	SCREW	M2x4
	SDSP2004Z	•	l l
	SDSP2006M	SCREW	M2x6
	SDSP2605Z	SCREW	M2.6x5
	SDSP3004Z	SCREW	M3x4
S20	SDSP3008M	SCREW	M3x8

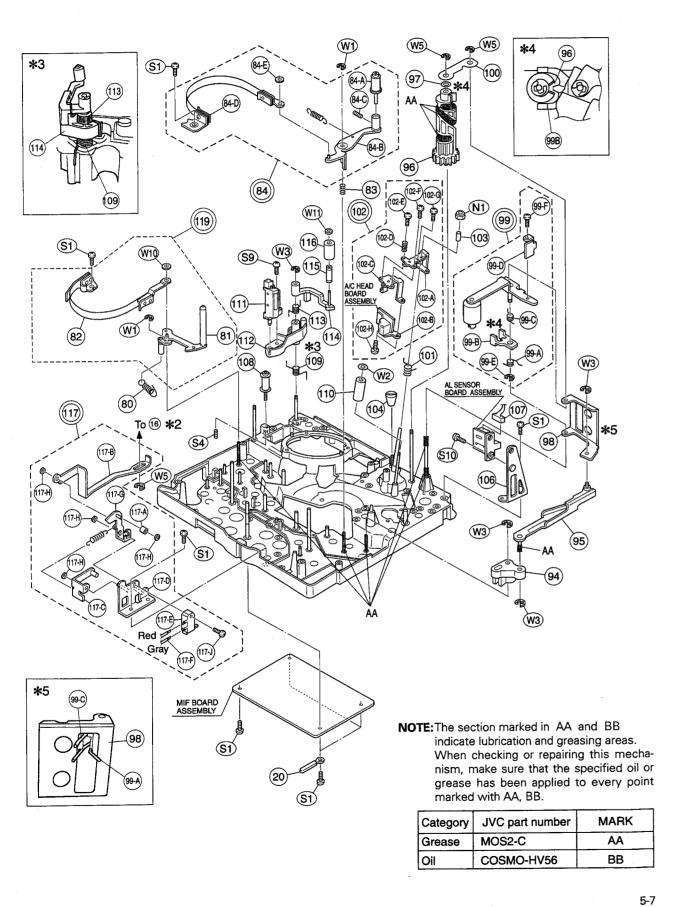
Symbol No.	Part No.	Part Name	Description
S21	SSSP2004M	SCREW	M2x4
S22	LPSP2006Z	SCREW	M2x6
S23	SDSF2004Z	SCREW	M2x4
S27	SDSP2612Z	SCREW	M2.6x12
S28	DPSP2005Z	SCREW	M2x5 Included by CASSETTE HOUSING ASSEMBLY
S29	SDSP2606Z	SCREW	M2.6x6
W14	PRD30029-10	WASHER	

5.3 MECHANISM ASSEMBLY PARTS LIST M4





5-6



			M4MM
Symbol No.	Part No.	Part Name	Description
1	PGS30280A	MECHANISM ASSEMBLY MAIN DECK	
2	PRD44995	A.G.PLATE	
3	PRD44141	SPACER	
<u>4</u> 5	PRD44573 PRD44574	P.I.GEAR C.I.GEAR	
6	PRD44574 PRD44578A	A.GEAR(R) ASSEMBLY	
7	PRD44862A	PIN PLATE ASSEMBLY	
8	PRD44865	ROLLER	
	PRD20538	CONTROL CAM	
10		S.ROD ASSEMBLY	
11	PRD30023-56 PRD31117-01-02	COMPRESS.SPRING 56 SLIDE GEAR	
12 13	l	A.GEAR(L) ASSEMBLY	
	PRD44796A-01	P.C.ARM ASSEMBLY	
15	PRD44838	TENSION SPRING 838	
	PRD44958A	CAM BKT.ASSEMBLY	
18	PGS30258A	M.SENSOR ASSEMBLY MODE SENSOR(2)	
	PRD31207 TLN117	PHOTO LED	
18C	TPS622	PH.TRANSISTOR	
	PRD20539	MODE SENSOR(1)	
	PRD44572	CONNECT GEAR	
20		WIRE CLAMP	
	PGZ02533 PRD44560A-01	L.MOTOR ASSEMBLY GEAR BKT. ASSEMBLY	
21A 21B		LOADING MOTOR	
	PRD44566	WORM WHEEL	
	PQM30018-54	SPACER	
21E	PRD30022-21	BELT	
	REE2000	E.WASHER SCREW	M2x3
210	LPSP2003Z PRD44571	BAND ROLLER	IVIZXS
	PRD44568A	B.R.ARM ASSEMBLY	
24	PRD44567	TIMING GEAR	
	PGZ02193	TIMING BELT	
	PRD44839A	ADJ.LEVER ASSEMBLY	
	PGZ02191 PRD44597A-01	CAPSTAN MOTOR S.PLATE ASSEMBLY	
	PRD31124	SOLENOID LEVER	·
		BRAKE PLATE	
31	PRD44832	COLLAR 1	
32	PRD44956A	B.ANGLE ASSEMBLY	·
	PRD44833	COLLAR 2	
	PRD44616 PRD44847-01-01	S.ADD LEVER TENSION SPRING 847	
36	PRD44815A-01	T.ROD ASSEMBLY	
37	PRD44961A	S.B.LEVER ASSEMBLY	
38	PRD44618A-01	SUB ARM SA	
	PRD31128	GENEVA GEAR	
	PRD44627A PRD44764	PUSH ARM ASSEMBLY COLLAR	
	PRD30021-14	BALL BEARING	
	PGZ02192	REEL MOTOR	
44	PRD30023-57	COMPRESS.SPRING 57	
	Q03093-831	WASHER	
	PGZ02194	SOLENOID BKT	
	PRD31125 PGS30299A	SOLENOID BKT. W SENSOR ASSEMBLY	
	PGS30299A PGZ02453	W SENSOR ASSEMBLY	
	QXTE154-010	TUBE	
	MLSL066A	CAS.SW WIRE	
	PRD44959A	T.S.L.SP.ASSEMBLY	
	PRD44953A	T.B.LEVER ASSEMBLY	
51	PRD45006A	L.C.L.F.ASSEMBLY	

Symbol No.	Part No.	Part Name	Description
52	PRD45007A	R.C.L.F.ASSEMBLY	
53	PRD20540	2ND CAM	
54 55	PRD44614A-01	DIR.PLATE ASSEMBLY SUB BRAKE ASSEMBLY	
	PRD44835A-01 PRD44786	COLLAR	·
57	PRD30021-13	BALL BEARING	
_58	PRD44518A	REEL DISK ASSEMBLY	
58A		RUBBER TIRE REEL DISK ASSEMBLY	
59 59A		RUBBER TIRE	
60	PRD44834	TORSION SPRING	
61	PRD44635A	B.H.BKT. ASSEMBLY	
62		T.B.A.SP.ASSEMBLY	
63	PRD31131A-02	S.B.ARM ASSEMBLY	
	PGS30248A	IDLER ASSEMBLY ARM GUIDE	
65 × 67	PRD31133-01-01 PGS30251A	L.ARM(R) ASSEMBLY	
^ 67A	PRD44537	LARM SHAFT	
67B	PRD44545A	ARM(R) ASSEMBLY	
67C	PRD31109	L.GEAR(R)	
		TENSION SPRING 422	
67E		TENSION SPRING 423	
67F 67G		BOTTOM STUD E.WASHER	
X 68	PRD31173B - 04	POLE BASE ASSEMBLY	
68A	PRD44966A	GUIDE ROLLER	
69	PGS30252A	ARM(D) ASSEMBLY	
69A		LOADING GEAR(D)	
69B	PRD30024-74	TENSION SPRING 74 ARM(D) BRACKET	
69C 69D	PRD44471A-01 PQM30017-5	WASHER	
70	PRD31174A	POLE BASE ASSEMBLY	
71	PRD10342-01-01	GUIDE RAIL(T)	
72	PRD44477A	BASE ASSEMBLY	
X 73	PGS30250A	L.ARM(L) ASSEMBLY	
73A 73B	PRD44537 PRD44538A	L.ARM SHAFT ARM(L) ASSEMBLY	
73C	PRD31108A	L.GEAR(L) ASSEMBLY	
73D	PRD44542	TENSION SPRING 420	
73E		E.WASHER	
74		POLE BASE ASSEMBLY	
75 76	PRD10341-01-01	GUIDE RAIL(S)	
76 77		CATCHER(S) CATCHER(T)	
78	PRD31095	CATCHER(D)	
X 79		CASS.LED ASSEMBLY	
81	PRD45022A-01	S.T.ARM ASSEMBLY	
X 82		TENSION BAND(S)	
83 × 84		COMP. SPRING 59 T.T.ARM ASSEMBLY	
	PRD43631A	GUIDE R.ASSEMBLY	
84B	l	T.T.ARM ASSEMBLY	
84C	YFS2605B	SCREW	M2.6x5
× 84D		TENSION BAND(T)	
84E		SLIT WASHER R.SENSOR.BKT.	
91	PRD44521 PRD44505	GUIDE ROLLER	·
92		GUIDE ROLLER	
93		DEW SENSOR	
		JOINT ARM	
	PRD44603A-01	PINCH ROD ASSEMBLY	
96		CAM GEAR WASHER	
97 98		PLOCK LEVER	
99		P.ROLLER ASSEMBLY	
		1	

Symbol No.	Part No.	Part Name	Description
99A	PRD45001	TORSION SPRING 451	
99B		ARM LIFTER	
99C	PRD45000	TORSION SPRING 450	
99D		SENSOR PLATE	·
99E	REE4000	E.WASHER	
99F	SDSP2004Z	SCREW	M2x4
	PRD44729	PLATE	
101	PRD44501-01-01	TORSION SPRING 501	
	PGS30247A	A/C HEAD ASSEMBLY	
	PRD31101	A/C HEAD ARM	
	PGZ02190	A/C HEAD	
	PRD44502A-02	HEAD BASE ASSEMBLY	
	PQM30002-197	COMPRESS.SPRING 197	1.00
	SDSP2612Z	SCREW	M2.6x12
	PQ43687B	SCREW	M2.6x8
	PQ44621	SCREW	M2.6x8
102H		SCREW	M2.6x4
103		COLLAR	
	PRD44241	TAPER NUT	
	PRD31156	SENSOR BRACKET	
108		G.ROLLER ASSEMBLY	
	PRD44498-01-01	TORSION SPRING 498	
	PRD44505 PRD44399A	GUIDE ROLLER	
1	PRD44399A PRD31099A-01	FULL ERASE HEAD E.HEAD ARM ASSEMBLY	
	PRD44790-01-01 PRD44499A	TORSION SPRING 790	
		H.C.ARM ASSEMBLY ROLLER	
	YQ42416 YQ42419-2	CLEANER	
	PGS30254A	LOCK UNIT ASSEMBLY	
	PRD44590	ROLLER	
	PRD44586-01-01	EJECT ROD	
117C		L.LEVER ASSEMBLY	
	PRD44594A	L.BKT. ASSEMBLY	
	PGZ00503	INSERT SWITCH	
	MLSL044A-01	CAS.LOCK WIRE	
	PRD45005A	NOSE F.ASSEMBLY	
	PQM30017-25	SLIT WASHER	
	SDSP2006M	SCREW	M2x6
118	PRD30024-42	COMPRESSION SPRING 42	
	PGS30256A	TENSION ARM ASSEMBLY(S)	
	PRD44141	SPACER	· ·
N1	PQ40353	NUT	
S1	SDSP2004Z	SCREW	M2x4
	SDSP2006M	SCREW	M2x6
	SPSH1740M	SCREW	M1.7x4
S4	YFS2603B	SCREW	M2.6x3
	SBSF2606Z	SCREW	M2.6x6
	SPSP2004Z	SCREW	M2x4
	LPSP2003Z	SCREW	M2x3
	DPSP2006Z	SCREW	M2x6
	SBSF2610Z	SCREW	M2.6x10
	LPSP3006Z	SCREW	M3x6
	REE1500	E.WASHER	
	PQM30017-25	SLIT WASHER	
	REE2000	E.WASHER	
	PRD43925	RING	
	REE2500	E.WASHER	
	PQM30018-33	WASHER	
	PQM30017-22	SLIT WASHER	
W8	REE4000	E.WASHER	
W9	Q03093-827	WASHER	
	PQM30017	SLIT WASHER	
VV17	YQM30017-8 Q03093-838	SLIT WASHER WASHER	
10/10			

5.4 CASSETTE HOUSING ASSEMBLY PARTS LIST M 5

	140.	1		
	1	PGS30329A-04 PRD44690A	CASS.HOUSING ASSEMBLY BKT.(L) ASSEMBLY	
		PRD44695A	BKT.(R) ASSEMBLY	
	3	1	CASSETTE GUIDE	
	Δ		SENSOR BRACKET	
	-,	PU56781	DUMPER	
		PQ42384-1-3	LID GUIDE	
		PRD31135A-01	C.HOUSING SUB ASSEMBLY	
		PRD31274	TOP PLATE	
		PRD31138	DOOR	
		PRD44696	DAMPER GEAR	
		PRD44697	HOLD LEVER(L)	
END SENSOR BOARD ASSEMBLY (15)		PRD44698	HOLD LEVER(R)	
© 13 EDARD ASSEMBLY (15)		PRD31139A	L.LEVER ASSEMBLY	
		PRD44986A	S.PLATE ASSEMBLY	
		PRD44699-01-02	TORSION SPRING 699	
SIA WI3		PRD30024-70-12	TENSION SPRING 70	
		PRD44702	TORSION SPRING 702	
		PRD30024-71	TENSION SPRING 71	
5 19		Q03093-817	WASHER	
		PRD30024-72	TENSION SPRING 72	
(0)/0000 (0-10) (16)		PRD30024-95	TENSION SPRING 95	
		SDSP2004Z	SCREW	M2x4
\$12 x2		DPSP2004Z	SCREW	M2x4
1) WIS SO THE STATE OF THE STAT		SSSP2004M	SCREW	M2x4
		SDSP2008Z	SCREW	M2x8
	S14	SDSP2006Z	SCREW	M2x6
	S15	DPSP2005Z	SCREW	M2x5
	W1	REE1500	E.WASHER	
	W13	REE3000	E.WASHER	
6	W15	Q03093-829	SPACER	
		L		<u> </u>
8 19				
18 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3				

Symbol No.

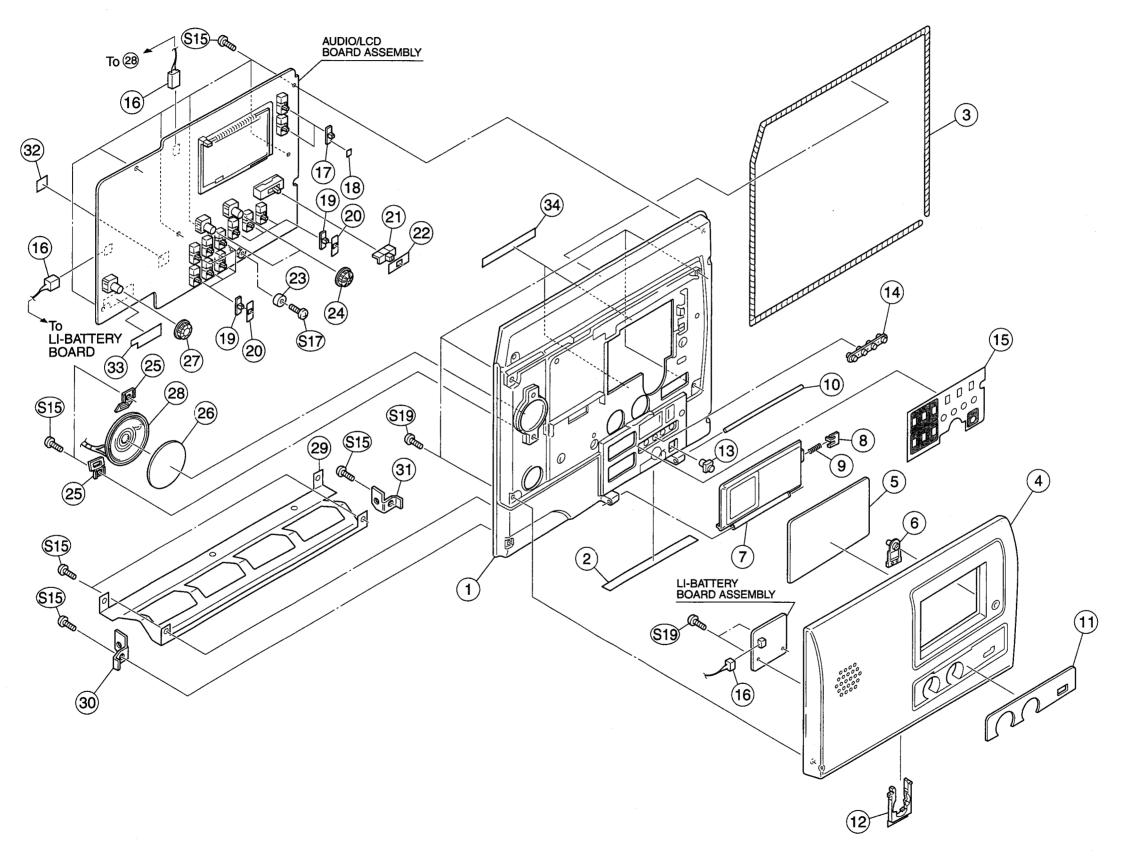
Part No.

Part Name

M5MM

Description

5.5 RIGHT SIDE COVER ASSEMBLY PARTS LIST M 6

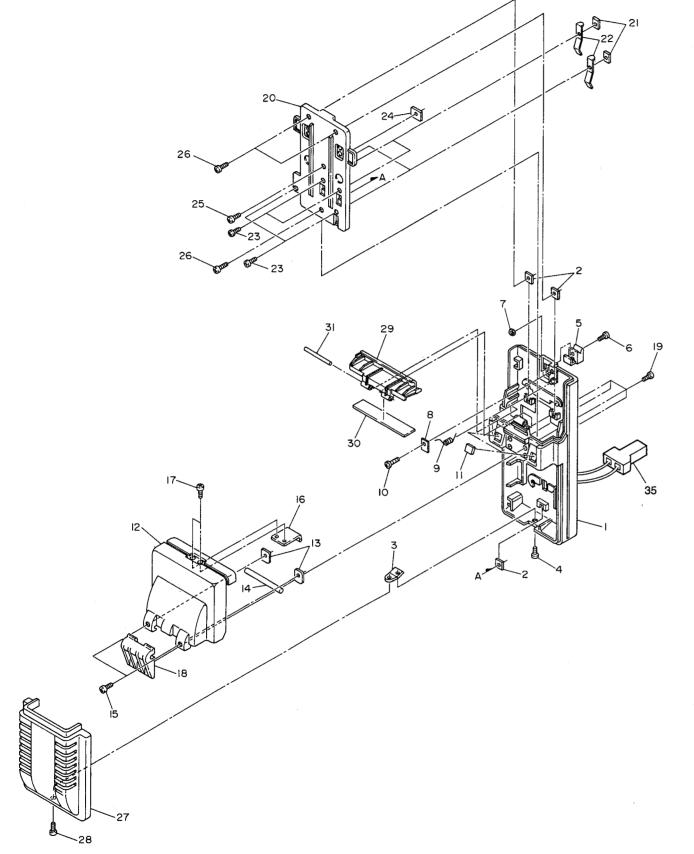


5-10

M6MM

Symbol No.	Part No.	Part Name	Description
1	PRD10354-01-02	SIDE COVER	
2	PRD30030-155	PAD	
3	PRD44992	SHIELD TUBE	
4	PRD10355-01-03	CHEEK PAD	
5	PRD44877	PLATE(LCD)	
6	PRD44874	KNOB(RESET)	
7	PRD31230-01-03	DOOR(A)	
8	PRD43840-01-04	KNOB(DOOR)	
9	PRD30023-53	COMPRESS SPRING	
10	PRD43829-03	SHAFT	
11	PRD44878-01-01	PLATE(AUD)	
12	PRD31245	LI B.HOLDER	
13	PRD44873	KNOB(MENU)	
14	SC44557	CAP	
15	PRD44881-01-04	PLATE(SW)	
16	MLSL047A	R.SIDE WIRE	•
17	PRD43835	KNOB(OPE)	
18	PRD42909-04	ADJUST PLATE	
19	PRD44020	KNOB(T/C)	
20	PRD43146-02	KNOB PLATE	
21	PRD42830	SLIDE KNOB	
22	PRD43146	KNOB PLATE	
23	PRD44875-01-02	VOL KNOB(1)	
24	PRD44876-01-02	VOL KNOB(2)	·
25	SC44537-001	SP BRACKET	
26	PRD30030-105	PAD	
27	PRD43839-01-03	KNOB(VR)	
28	PGZ01282	SPEAKER	
29	PRD31234	HINGE	
30	PRD44896	STAY(1)	
31	PRD44897	STAY(2)	
32	PRD30030-55	PAD	
33	PRD45046	SHEET	
34	PRD30030-161	PAD	
S15	SDSP2605Z	SCREW	M2.6x5
S17	SPSH1450Z	SCREW	M1.4x50
S19	SDSF2605Z	SCREW	M2.6x5

5.6 BATTERY HOLDER ASSEMBLY PARTS LIST M 7



Symbol No.	Part No.	Part Name	Description
	PGS20993A	BATTERY HOLDER	
1	SC10156-001	B.H. BASE	
2	PRD30955	PLATE(1)	
3	SC45152-001	NUT PLATE	
4	SDSP3004NY	SCREW	M3x4
5	SC43570-001	LOCK KNOB	
6	SDSP2006MY	SCREW	M2x6
7	NNS2000N	NUT	
8	SC43571-001	PLATE	
9	PRD44060	SPRING	
10	SDSF2005MY	SCREW	M2x5
11	SC45155-001	CUSHION	
12	SC20476-002	COVER(1)	
13	PRD30955-02	PLATE(2)	
14	PRD44062	SHAFT	
15	SSSP2606MY	SCREW	M2.6x6
16	PRD30955-05	PLATE(5)	
17	SPSK2650M	SCREW	M2.6x5.0
18	SC31501-002	HOLDER	
19	SDSP2605MY	SCREW	M2.6x5
20	SC20478-004	TERMINAL COVER	
21	PRD30955-03	PLATE(3)	
22	SC45150-001	PLATE	
23	SSSK2040M	SCREW	M2x4.0
24	PRD30955-04	PLATE(4)	†
25	SSSK2040M	SCREW	M2x4.0
26	SSSP3005MY	SCREW	M3x5
27	SC20477-002	COVER(2)	
28	SDSP3005M	SCREW	M3x5
29	SC31319-011	GUIDE	
30	SC44869-006	SPRING	
31	PRD44066	SHAFT	
35	ML-G01115A-01	WIRE KIT	

SECTION 6 ELECTRICAL PARTS LIST

SAFETY PRECAUTION:

Parts identified by the \triangle symbol are critical for safety. Replace only with specified parts numbers. For maximum reliability and performance, all other replacement parts should be identical to those specified.

NOTE:

- Parts not denoted by parts numbers are not supplied by JVC.
- Abbreviations in this list are as follows:

RESISTORS

In the "Description" column:

All resistance values are in ohms (W). K expresses kilo-ohm (1 000 ohms, kW). M expresses mega-ohm (106 ohms, MW).

In the "Parts Name" column:

COMP. RESISTOR: Composition Resistor

U.F. RESISTOR : Non-inflammable Resistor

O.M.F. RESISTOR : Oxide Metalized Film Resistor

FUSI. RESISTOR : Fusible Resistor : Metal Plate Resistor M.P. RESISTOR

: Metal Graze Resistor M.G. RESISTOR

: Metal Film Resistor M.F. RESISTOR : Wire Wound Resistor W.W. RESISTOR

CAPACITORS

In the "Description" column:

All capacitance values are in microfarad (μ F) unless

otherwise indicated.

P expresses picofarad (10-12 farad,pF).

In the "Parts Name" column:

TRIM. CAPACITOR: **Trimmer Capacitor** Ceramic Capacitor CER. CAPACITOR :

Electrolytic Capacitor E. CAPACITOR TAN. CAPACITOR : Tantalum Capacitor

MPP CAPACITOR Metalized Polypropylene

Capacitor

O.F. CAPACITOR Oil Film Capacitor

Metalized Polyfilm Capacitor MPF CAPACITOR :

Film Mica Capacitor F.M. CAPACITOR Polypropylene Capacitor P.P. CAPACITOR Polystyrene Capacitor P.S. CAPACITOR

M.F. CAPACITOR Metalized Film Capacitor

Note: In the "Description" column of the parts list, (U) means the parts for the U version while (E) is for the E Version.

Symbol No.	Part No.	Part Name	Description		
IC1	SCV1585-064 SCV1585-067	I.C.(M) I.C.(M)	JVC	(U) (E)	for U version for E version

6.1 AUDIO & LCD BOARD ASSEMBLY PARTS LIST 0 1 SLK1042-A1A(for U. Ver.)/SLK1042-B0A(for E. Ver.) 0 1

Symbol No.	Part No.	Part Name	Description	
IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10	M5218AFP-X M5218AFP-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	MITSUBISHI MITSUBISHI MITSUBISHI MITSUBISHI TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA	
IC11 IC12 IC13 IC14 IC15 IC16 IC17 IC18 IC19 IC21	TC4S81F-X TC4S81F-X M5282FP-X M5282FP-X M5218AFP-X M5218AFP-X BA10358F-X BA10358F-X M5218AFP-X TC4W53F-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	TOSHIBA TOSHIBA MITSUBISHI MITSUBISHI MITSUBISHI ROHM ROHM ROHM MITSUBISHI TOSHIBA	
IC22 IC101 IC201 IC202 IC203 IC204 IC205 IC206 IC207 IC208	TC4W53F-X M5218AFP-X M5218AFP-X M5218AFP-X AK5340-VS AN77L05M-X PCM1710U/G/-X AN77L05M-X TC74HCT541AF-X TC4094BF-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	TOSHIBA MITSUBISHI MITSUBISHI MITSUBISHI ASAHIKASEI MATSUSHITA BAR BRAWN MATSUSHITA TOSHIBA TOSHIBA	
IC209 IC210 IC211 IC212 IC220 IC301 IC302 IC401 IC401 IC402	M5201FP-X M5201FP-X M5218AFP-X M5216FP-X TC7S04F-X BA7765AS BA7765AS UPD78P054GC-400 UPD78P054GC-500 NJU6433FB2		MITSUBISHI MITSUBISHI MITSUBISHI MITSUBISHI TOSHIBA ROHM ROHM JVC JVC JRC	(U) (E)
IC403 IC404 IC405 IC406 IC407 IC408 IC410 IC411 IC412 IC413	TC7W126FU-X TC4S69F-X TC4S71F-X TC74HC08AF-X TC4S6F-X TC4S81F-X TC4538BF-X MSM6338MS-K TC4W53F-X UPC393G2-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA OKI TOSHIBA NEC	
IC414 IC415 IC418 IC419 IC420 IC422 IC423 IC424 IC425 IC426	UPC393G2-X M5218AFP-X S-8420BF-X S-8054HN-CB-X TC4S69F-X TC7VV74F-X TC7VV74F-X BA10358F-X BA10358F-X TC4VV53F-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	NEC MITSUBISHI SEIKO SEIKO TOSHIBA TOSHIBA TOSHIBA ROHM ROHM TOSHIBA	,
IC427	TC4VV53F-X	I.C.(M)	TOSHIBA	
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10	2SD2240/RST/-X 2SD2240/RST/-X 2SB1463/RST/-X 2SB1463/RST/-X 2SD2240/RST/-X 2SD2240/RST/-X DTC124EUA-X DTC124EUA-X DTC124EUA-X DTC124EUA-X DTC124EUA-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA ROHM ROHM ROHM ROHM	

Symbol No.	Part No.	Part Name	Description
Q11 Q12 Q13 Q14 Q17 Q18 Q19 Q20 Q21 Q22	2SC4081/QRS/-X 2SC4081/QRS/-X DTC124EUA-X DTC124EUA-X DTA124EUA-X DTA124EUA-X 2SC4081/QRS/-X 2SC4081/QRS/-X 2SC4081/QRS/-X 2SD2240/RST/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM ROHM ROHM MATSUSHITA MATSUSHITA
Q101 Q102 Q103 Q104 Q201 Q202 Q203 Q204 Q205 Q206	DTC114TUA-X DTC114TUA-X 2SC4081/QRS/-X 2SC4081/QRS/-X DTC124EUA-X DTC124EUA-X DTC124TUA-X DTC124TUA-X 2SB1463/RST/-X FMW3-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM
O207 O209 O301 O401 O402 O403 O404 O405 O406 O407	FMW3-X 2SD601A/QRS/-X 2SC2873/Y/-X DTC124EUA-X DTA124EUA-X FMG1A-W DTC124EUA-X DTC124EUA-X FMC2A-X FMC2A-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM MATSUSHITA TOSHIBA ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM
Q410 Q411 Q412 Q413 Q414 Q415	DTC124EUA-X 2SA1577/QR/-X 2SA1577/QR/-X DTA124EUA-X DTA124EUA-X FMC2A-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM ROHM
D1 D2 D3 D4 D9 D10 D11 D12 D13 D101	DA204U-X DA204U-X DA204U-X DA204U-X DA204U-X DA204U-X 1SS133K 1SS133K DAP202U-X DAN202U-X	DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM
D201 D202 D401 D402 D404 D405 D406	DAN202U-X DA204U-X DA204U-X DAN202U-X DAN202U-X TLSG208 PGZ02384	DIODE DIODE DIODE DIODE DIODE L.E.D. BACK LIGHT ASSEMBLY	ROHM ROHM ROHM ROHM ROHM
R1 R2 R3 R4 R5 R6 R7 R8 R9	NRSA02J-222X NRSA02J-222X NRSA02J-222X NRSA02J-222X NRSA02J-222X NRSA02J-222X NRSA02J-222X NRSA02J-222X NRSA02J-182X NRSA02J-182X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	2.2k 1/10W 2.2k 1/10W 2.2k 1/10W 2.2k 1/10W 2.2k 1/10W 2.2k 1/10W 2.2k 1/10W 2.2k 1/10W 1.8k 1/10W 1.8k 1/10W
R11 R12 R13 R14 R15 R16 R17	NRSA02J-182X NRSA02J-182X NRSA02J-331X NRSA02J-331X NRSA02J-331X NRSA02J-331X NRSA63J-273X NRSA63J-273X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1.8k 1/10W 1.8k 1/10W 330 1/10W 330 1/10W 330 1/10W 330 1/10W 27k 1/16W 27k 1/16W

R20 N R21 N R22 N R22 N R24 N R25 N R26 N R27 N R28 N R30 N R31 N R31 N R32 N R33 N R34 N R35 N R36 N R37 N R38 N	IRSA63J-274X IRSA63J-274X IRSA63J-274X IRSA63J-105X IRSA63J-105X IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-332X IRSA63J-332X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	270k 1/ 270k 1/ 270k 1/ 270k 1/ 1M 1/ 1M 1/ 47k 1/ 47k 1/ 47k 1/ 47k 1/ 3.3k 1/ 3.3k 1/	16W 16W 16W 16W 16W 16W 16W 16W 16W 16W
R20 N R21 N R22 N R22 N R24 N R25 N R26 N R27 N R28 N R30 N R31 N R31 N R32 N R33 N R34 N R35 N R36 N R37 N R38 N	IRSA63J-274X IRSA63J-274X IRSA63J-105X IRSA63J-105X IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-332X IRSA63J-332X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	270k 1/ 270k 1/ 270k 1/ 270k 1/ 1M 1/ 1M 1/ 47k 1/ 47k 1/ 47k 1/ 47k 1/ 3.3k 1/ 3.3k 1/	116W 116W 116W 116W 116W 116W 116W 116W
R21 N R22 N R23 N R24 N R25 N R26 N R27 N R28 N R30 N R31 N R31 N R32 N R33 N R34 N R35 N R36 N R37 N R38 N R38 N	IRSA63J-274X IRSA63J-274X IRSA63J-105X IRSA63J-105X IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-332X IRSA63J-332X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	270k 1/ 270k 1/ 270k 1/ 1M 1/ 1M 1/ 47k 1/ 47k 1/ 47k 1/ 47k 1/ 3.3k 1/ 3.3k 1/	116W 116W 116W 116W 116W 116W 116W 116W
R22 N R23 N R24 N R25 N R26 N R27 N R28 N R30 N R31 N R32 N R31 N R32 N R34 N R35 N R36 N R36 N R37 N	IRSA63J-274X IRSA63J-105X IRSA63J-105X IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-332X IRSA63J-332X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	270k 1/ 1M 1/ 1M 1/ 47k 1/ 47k 1/ 47k 1/ 47k 1/ 47k 1/ 3.3k 1/ 3.3k 1/	116W 116W 116W 116W 116W 116W 116W
R23 N R24 N R25 N R26 N R27 N R28 N R29 N R30 N R31 N R32 N R31 N R32 N R34 N R35 N R36 N R36 N R37 N R38 N	IRSA63J-105X IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-332X IRSA63J-332X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1M 1/ 1M 1/ 47k 1/ 47k 1/ 47k 1/ 47k 1/ 47k 1/ 3.3k 1/ 3.3k 1/	16W 16W 16W 16W 16W 16W 16W
R24 N R25 N R26 N R27 N R28 N R29 N R30 N R31 N R32 N R33 N R34 N R35 N R36 N R37 N R37 N R38 N R39 N	IRSA63J-105X IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-332X IRSA63J-332X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1M 1/ 47k 1/ 47k 1/ 47k 1/ 47k 1/ 47k 1/ 3.3k 1/ 3.3k 1/	116W 116W 116W 116W 116W 116W
R25 N R26 N R27 N R28 N R30 N R31 N R32 N R33 N R34 N R35 N R36 N R36 N R37 N R38 N R38 N	IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-332X IRSA63J-332X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	47k 1/47k 1/47k 1/47k 1/47k 1/47k 1/3.3k 1/3.3k 1/4.	716W 716W 716W 716W 716W
R26 N R27 N R28 N R29 N R30 N R31 N R32 N R33 N R34 N R35 N R36 N R37 N R38 N	IRSA63J-473X IRSA63J-473X IRSA63J-473X IRSA63J-332X IRSA63J-332X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	47k 1/ 47k 1/ 47k 1/ 3.3k 1/ 3.3k 1/	/16W /16W /16W /16W
R27 N R28 N R29 N R30 N R31 N R32 N R33 N R34 N R35 N R36 N R37 N R38 N	IRSA63J-473X IRSA63J-473X IRSA63J-332X IRSA63J-332X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	47k 1/ 47k 1/ 3.3k 1/ 3.3k 1/	/16W /16W /16W
R28 N R29 N R30 N R31 N R32 N R33 N R34 N R35 N R36 N R37 N R38 N R39 N	IRSA63J-473X IRSA63J-332X IRSA63J-332X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	47k 1/ 3.3k 1/ 3.3k 1/	/16W /16W
R39 N R31 N R32 N R33 N R34 N R35 N R36 N R37 N R37 N R38 N R39 N	IRSA63J-332X IRSA63J-332X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	3.3k 1/ 3.3k 1/	16W
R30 N R31 N R32 N R33 N R34 N R35 N R36 N R36 N R37 N R38 N	IRSA63J-332X IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	3.3k 1/	
R31 N R32 N R33 N R34 N R35 N R36 N R37 N R38 N R39 N	IRSA63J-104X IRSA63J-104X IRSA63J-104X IRSA63J-104X	M.G.RESISTOR M.G.RESISTOR		′16W
R32 N R33 N R34 N R35 N R36 N R37 N R38 N R39 N	NRSA63J-104X NRSA63J-104X NRSA63J-104X	M.G.RESISTOR	100k 1/	
R33 N R34 N R35 N R36 N R37 N R38 N R39 N	NRSA63J-104X NRSA63J-104X			/16W
R34 N R35 N R36 N R37 N R38 N R39 N	IRSA63J-104X	M G RESISTOR		/16W
R35 N R36 N R37 N R38 N R39 N				/16W
R36 N R37 N R38 N R39 N	NRSA63J-222X	M.G.RESISTOR		/16W
R37 N R38 N R39 N		M.G.RESISTOR		/16W
R38 N R39 N	NRSA63J-222X	M.G.RESISTOR		/16W
R39 N	NRSA63J-222X	M.G.RESISTOR		/16W
R39 N	NRSA63J-222X	M.G.RESISTOR		/16W
	NRSA63J-750X	M.G.RESISTOR	75 1/	/16W
R40 N	NRSA63J-750X	M.G.RESISTOR	75 1,	/16W
	NRSA63J-680X	M.G.RESISTOR		/16W
	NRSA63J-680X	M.G.RESISTOR		/16W
	NRSA63J-332X	M.G.RESISTOR	3.3k 1,	/16W
	NRSA63J-332X	M.G.RESISTOR		/16W
	VRSA63J-332X	M.G.RESISTOR		/16W
	VRSA63J-332X	M.G.RESISTOR		/16W
	VRSA63J-153X	M.G.RESISTOR		/16W
	VRSA63J-153X	M.G.RESISTOR		/16W
		M.G.RESISTOR		/16W
	NRSA63J-153X NRSA63J-153X	M.G.RESISTOR		/16W
254	UDCACO LAFOV	M C DECISTOR	15k 1,	/16W
	VRSA63J-153X	M.G.RESISTOR		/16W
-	VRSA63J-153X	M.G.RESISTOR		
	VRSA63J-153X	M.G.RESISTOR		/16W
1	NRSA63J-153X	M.G.RESISTOR		/16W
	NRSA63J-104X	M.G.RESISTOR		/16W
R56 N	NRSA63J-104X	M.G.RESISTOR		/16W
R57 N	NRSA63J-103X	M.G.RESISTOR		/16W
R58 1	NRSA63J-103X	M.G.RESISTOR		/16W
R59 N	NRSA63J-103X	M.G.RESISTOR		/16W
R60 N	NRSA63J-103X	M.G.RESISTOR	10k 1	/16W
1	NRSA63J-472X	M.G.RESISTOR		/16W
R62	NRSA63J-472X	M.G.RESISTOR		/16W
R63 1	NRSA63J-472X	M.G.RESISTOR	4.7k 1	/16W
	NRSA63J-472X	M.G.RESISTOR	4.7k 1	/16W
	NRSA63J-104X	M.G.RESISTOR	100k 1	/16W
	NRSA63J-104X	M.G.RESISTOR	100k 1	/16W
	NRSA63J-104X	M.G.RESISTOR		/16W
	NRSA63J-104X	M.G.RESISTOR		/16W
	NRSA63J-103X	M.G.RESISTOR		/16W
	NRSA63J-103X	M.G.RESISTOR		/16W
R71	NRSA63J-272X	M.G.RESISTOR	2.7k 1	/16W
	NRSA63J-272X	M.G.RESISTOR		/16W
	NRSA63J-102X	M.G.RESISTOR		/16W
		M.G.RESISTOR	1	/16W
	NRSA63J-102X			/16W
1	NRSA63J-104X	M.G.RESISTOR		/16W
	NRSA63J-104X	M.G.RESISTOR		/16W
	NRSA63J-103X	M.G.RESISTOR		/16W
	NRSA63J-103X	M.G.RESISTOR		
	NRSA63J-103X	M.G.RESISTOR		/16W
R80	NRSA63J-103X	M.G.RESISTOR	10k 1	/16W
	NRSA63J-103X	M.G.RESISTOR		/16W
	NRSA63J-103X	M.G.RESISTOR	ì	/16W
	NRSA63J-102X	M.G.RESISTOR		/16W
	NRSA63J-102X	M.G.RESISTOR	1k 1	/16W
	NRSA63J-102X	M.G.RESISTOR		/16W
	NRSA63J-102X	M.G.RESISTOR		/16W
	NRSA63J-473X	M.G.RESISTOR		I/16W
	NRSA63J-472X	M.G.RESISTOR		1/16W
	NRSA63J-472X	M.G.RESISTOR		I/16W
	NRSA63J-154X	M.G.RESISTOR		1/16W
	NRSA63J-154X	M.G.RESISTOR	150k 1	! I/16W

tion		nbol o.	Part No.	Part Name	De	scription
1/16W	R'	103	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
1/16W		104	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
1/16W		105	NRSA63J-183X	M.G.RESISTOR	18k	1/16W
1/16W		106	NRSA63J-183X	M.G.RESISTOR	18k 2.2k	1/16W 1/16W
1/16W		107	NRSA63J-222X	M.G.RESISTOR M.G.RESISTOR	2.2k	1/16W
1/16W 1/16W		108 109	NRSA63J-222X NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W		110	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W		111	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W			THICK LOOP TOOK			
1/16W	R	112	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W	l R	113	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
	R	114	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
1/16W	.)	115	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W		116	NRSA63J-103X	M.G.RESISTOR	10k 10k	1/16W 1/16W
1/16W		117	NRSA63J-103X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	10k	1/16W
1/16W 1/16W		118 119	NRSA63J-563X	M.G.RESISTOR	56k	1/16W
1/16W		120	NRSA63J-563X	M.G.RESISTOR	56k	1/16W
1/16W		121	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W						
1/16W	R	122	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W	R	123	NRSA63J-112X	M.G.RESISTOR	1.1k	1/16W
	1 1	124	NRSA63J-112X	M.G.RESISTOR	1.1k	1/16W
1/16W		125	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
1/16W		126	NRSA63J-102X	M.G.RESISTOR	1k 10k	1/16W 1/16W
1/16W		127	NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	10k	1/16W
1/16W		128 129	NRSA63J-103X NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W 1/16W		130	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W	1 1	133	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
1/16W	l I "					
1/16W	l R	134	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
1/16W	R	135	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
		136	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W		137	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W		138	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W		139	NRSA63J-184X	M.G.RESISTOR M.G.RESISTOR	180k 180k	1/16W 1/16W
1/16W		140 141	NRSA63J-184X NRSA63J-153X	M.G.RESISTOR	15k	1/16W
1/16W 1/16W		142	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
1/16W	1 1	143	NRSA63J-683X	M.G.RESISTOR	68k	1/16W
1/16W	1 1 "					
1/16W	l R	144	NRSA63J-683X	M.G.RESISTOR	68k	1/16W
1/16W	R	145	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
		146	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
1/16W		147	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W	1 1 "	148	NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	10k 15k	1/16W 1/16W
1/16W		1149 1150	NRSA63J-153X NRSA63J-153X	M.G.RESISTOR	15k	1/16W
1/16W 1/16W		1150	NRSA63J-122X	M.G.RESISTOR	1.2k	1/16W
1/16W		152	NRSA63J-122X	M.G.RESISTOR	1.2k	1/16W
1/16W	1 1	1153	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W						
1/16W	P	154	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
1/16W	R	155	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
		156	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
1/16W		171	NRSA63J-823X	M.G.RESISTOR	82k	1/16W 1/16W
1/16W		172	NRSA63J-823X	M.G.RESISTOR M.G.RESISTOR	82k 82k	1/16W
1/16W		R173 R174	NRSA63J-823X NRSA63J-823X	M.G.RESISTOR	82k	1/16W
1/16W 1/16W		1174	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
1/16W		176	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
1/16W		177	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
1/16W						
1/16W) F	R178	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
1/16W	F	179	NRSA63J-471X	M.G.RESISTOR	470	1/16W
		₹180	NRSA63J-471X	M.G.RESISTOR	470	1/16W
1/16W	1 1	181	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
1/16W	1 1	1182	NRSA63J-152X	M.G.RESISTOR	1.5k 10k	1/16W 1/16W
1/16W	, ,	183	NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	10k	1/16W
1/16W		R184 R185	NRSA63J-103X NRSA63J-223X	M.G.RESISTOR	22k	1/16W
1/16W 1/16W		1185	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
1/16VV		R187	NRSA63J-181X	M.G.RESISTOR	180	1/16W
.,	'				1	.,
1/16W		3400	NRSA63J-181X	M.G.RESISTOR	180	1/16W
1/16W 1/16W	F	3188	INITIOAGOSOFICIA	141.0.112010101	100	17.000
		1188 1189	NRSA63J-821X	M.G.RESISTOR	820	1/16W
1/16W						

PRISON PRISON TOWN TOW	Symbol No.	Part No.	Part Name	Des	cription	Symbol No.	Part No.	Part Name		Description
		NIDS A 62 L 472V	M.C. PECISTOR	1.74	1/16\\\		NRSA63 L473Y	M.G. RESISTOR	47k	1/16\//
## ## ## ## ## ## ## #										
										1/16W
				1						
PROSE MISSASS-1100X M.G. RESISTOR 10k 11/89V R293 MISSASS-170X M.G. RESISTOR 10k 11/89V R294 MISSASS-170X M.G. RESISTOR 10k 11/89V R294 MISSASS-170X M.G. RESISTOR 10k 11/89V R294 MISSASS-170X M.G. RESISTOR 30k 11/89V R294 MISSASS-170X M.G. RESISTOR 30k 11/89V R295 MISSASS-170X M.G. RESISTOR 10k 11/89V R295 MISSASS-170X M.G. R				10k	1/16W	R290	NRSA63J-0R0X	M.G.RESISTOR		1/16W
R200		NRSA63J-103X	M.G.RESISTOR	10k	1/16W					1/16W
R020 MISABASI 100X M. G. RESISTOR 10K 1769V R020 MISABASI 30XX M. G. RESISTOR 3.9k 1769V R020 MISABASI 30XX M. G. RESISTOR 4.7k 4.7	1									1/16W
ROSA RESISTOR S. RESIS										1/16W
R200 RISAGRAS-3931						1 1				
R200										
R211 NRS-AGSJ-3131										
R213 RSA63.192X M. G. RESISTOR 339 1/169V R312 RSA63.192X M. G. RESISTOR 2.7 1/169V R314 RSA63.192X M. G. RESISTOR 4.7 1/169V R316 RSA63.192X M. G. RESISTOR 1.7 1/169V R316 RSA63.192X M. G. RESISTOR 1.0 1/169V R316 RSA63.192										
R214 NRSA63-192X M. G. RESISTOR 4.7k 1/16W R214 NRSA63-192X M. G. RESISTOR 100 1/16W R216 NRSA63-192X M. G. RESISTOR 10k 1/16W R217 NRSA63-192X M. G. RESISTOR 10k 1/16W R217 NRSA63-192X M. G. RESISTOR 10k 1/16W R217 NRSA63-192X M. G. RESISTOR 10k 1/16W R22 NRSA63-192X M. G. RESISTOR 10k 1/16W R217 NRSA63-192X M. G. RESISTOR 10k 1/16W R217 NRSA63-192X M. G. RESISTOR 10k 1/16W R217 NRSA63-192X M. G. RESISTOR 10k 1/16W R217 NRSA63-192X M. G. RESISTOR 10k 1/16W R217 NRSA63-192X M. G. RESISTOR 10k 1/16W R217 NRSA63-192X M. G. RESISTOR 10k 1/16W R218 NRSA63-192X M. G. RESISTOR 10k 1/16W R218 NRSA63-192X M. G. RESISTOR 10k 1/16W R218 NRSA63-192X M. G. RESISTOR 10k 1/16W R218 NRSA63-192X M. G. RESISTOR 10k 1/16W R218 NRSA63-192X M. G. RESISTOR 3.3k 1/16W R218 NRSA63-192X M. G. RESISTOR 10k 1/16W R218 NRSA63-192X M. G. RESISTOR 10k 1/16W R218 NRSA63-192X M. G. RESISTOR 3.3k 1/16W R218 NRSA63-192X M. G. RESISTOR 10k 1/16W R218 NRSA63-192X M. G. RESISTOR 10k 1/16W R218 NRSA63-192X M. G. RESISTOR 10k 1/16W R218 NRSA63-192X M. G. RESISTOR 3.3k 1/16W R218 NRSA63-192X M. G. RESISTOR 10k 1/16W R218 NRSA63-192X M. G. RESI										
R214 RRSAG3-127X M. G. RESISTOR 4.7k 1/169V R300 RSAG3-1-01X M. G. RESISTOR 100 1/169V R306 RSAG3-1-01X M. G. RE						11302	1V113A033-223A	W.G.NESISTON	221	1/1000
Rejie NRSAGS1470X M. G. RESISTOR 10						B303	NRSA63 I-101X	M G RESISTOR	100	1/16W
R216 NRSA63-1470X M. G. RESISTOR 47 17/60V R307 NRSA63-142X M. G. RESISTOR 10k 17/60V R307 NRSA63-163X M. G. RESISTOR 10k 17/60V R307 NRSA63-163X M. G. RESISTOR 10k 17/60V R307 NRSA63-163X M. G. RESISTOR 10k 17/60V R308 NRSA63-163X M. G. RESISTOR 10k 17/60V R310 NRSA63-163X M. G. RESISTOR 10k 17/60V R311 NRSA63-163X M. G. RESISTOR 10k 17/60V R312 NRSA63-163X M. G. RESISTOR 10k 17/60V R312 NRSA63-163X M. G. RESISTOR 10k 17/60V R314 NRSA63-163X M. G. RESISTOR 10k 17/60V R316 NRSA63-163X M. G. RESISTOR 10k 17/60V R322 NRSA63-163X M. G. RESISTOR 10k 17/60V R323 NRSA63-163X M. G. RESISTOR 10k 17/60V R323 NRSA63-163X M. G. RESISTOR 10k 17/60V R323 NRSA63-163X M. G. RESISTOR 10k 17/60V R324 NRSA63-163X M. G. RESISTOR 10k 17/60V R323 NRSA63-163X M. G. RESISTOR 10k 17/60V R324 NRSA63-163X M. G. RESISTOR 10k 17/60V R326 NRSA63-163X M. G. RESISTOR 10k 17/60V R326 NRSA63-163X M. G. RESISTOR 10k 17/60V R326 NRSA63-163X M. G. RES										1/16W
R221 NRSA63-1-03X M. G. RESISTOR 47 1/16W R306 NRSA63-1-03X M. G. RESISTOR 100 1/16W R308 NRSA63-1-63X M. G. RESISTOR 650 1/16W R308 NRSA63-1-63X M. G. RESISTOR 100 1/16W R311 NRSA63-1-73X M. G. RESISTOR 100 1/16W R314 NRSA63-1-73X M. G. RESISTOR 100 1/16W R317 NRSA63-1-73X M. G. RESISTOR 100 1/16W R317 NRSA63-1-73X M. G. RESISTOR 100 1/16W R317 NRSA63-1-73X M. G. RESISTOR 100 1/16W R318 NRSA63-1-73X M. G. RESISTOR 100 1/16W R319 NRSA63-1-73X M. G. RESISTOR 100 1/16W R319 NRSA63-1-73X M. G. RESISTOR 100 1/16W R319 NRSA63-1-73X M. G. RESISTOR 100 1/16W R321 NRSA63-1-73X M. G. RES	112.10	14110/1000 220/1	171.0.1120.0101		1, 1, 0.1.1		1			1/16W
R222 NRSA63-103X M. G. RESISTOR 10k 1/10W 10k	R216	NRSA63J-470X	M.G.RESISTOR	47	1/16W	R306	NRSA63J-124X	M.G.RESISTOR	120k	1/16W
R222 NRSA63-103X M. G. RESISTOR 100 1/16W R311 NRSA63-323X M. G. RESISTOR 3.3k 1/16W R32 NRSA63-103X M. G. RESISTOR 10k 1/16W R311 NRSA63-32X M. G. RESISTOR 3.3k 1/16W R32 NRSA63-103X M. G. RESISTOR 10k 1/16W R311 NRSA63-4/73X M. G. RESISTOR 47k 1/16W R32 NRSA63-103X M. G. RESISTOR 10k 1/16W R311 NRSA63-4/73X M. G. RESISTOR 47k 1/16W R32 NRSA63-103X M. G. RESISTOR 10k 1/16W R313 NRSA63-103X M. G. RESISTOR 10k 1/16W R315 NRSA63-105X M. G. RESISTOR 10k 1/16W R315 NRSA63-105X M. G. RESISTOR 10k 1/16W R316 NRSA63-105X M. G. RESISTOR 10k 1/16W R326 NRSA63-105X M. G. RESISTOR 10k 1/16W R326 NRSA63-105X M. G. RESISTOR 10k 1/16W R326 NRSA63-105			M.G.RESISTOR	10k	1/16W	R307	NRSA63J-561X	M.G.RESISTOR		1/16W
R224 NRSAQS-103X M. G.RESISTOR 10k 1/16W R25 NRSAQS-103X M. G.RESISTOR 3/k 1/16W R25 NRSAQS-103X M. G.RESISTOR 10k 1/16W R311 NRSAQS-1/47X M. G.RESISTOR 47k 1/16W R312 NRSAQS-1/47X M. G.RESISTOR 47k 1/16W R312 NRSAQS-1/47X M. G.RESISTOR 47k 1/16W R314 NRSAQS-1/47X M. G.RESISTOR 47k 1/16W R314 NRSAQS-1/47X M. G.RESISTOR 47k 1/16W R314 NRSAQS-1/47X M. G.RESISTOR 47k 1/16W R314 NRSAQS-1/47X M. G.RESISTOR 47k 1/16W R314 NRSAQS-1/47X M. G.RESISTOR 47k 1/16W R314 NRSAQS-1/47X M. G.RESISTOR 47k 1/16W R314 NRSAQS-1/47X M. G.RESISTOR 47k 1/16W R314 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R314 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R316 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R316 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R316 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R316 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R316 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R316 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R316 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R316 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R316 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R324 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R324 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R324 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R324 NRSAQS-1/47X M. G.RESISTOR 10k 1/16W R324 NRSAQS-1/47X M. G.RESISTOR 470 1/16W R324 NRSAQS-1/47X M. G.RESISTOR 10k	R222	NRSA63J-103X	M.G.RESISTOR	10k	1/16W					1/16W
R225 NRSAGS-1-103X M.G. RESISTOR 10k 1/16W R311 NRSAGS-3-1-32X M.G. RESISTOR 47k 1/16W R322 NRSAGS-1-103X M.G. RESISTOR 10k 1/16W R313 NRSAGS-3-1-32X M.G. RESISTOR 3.9k 1/16W R314 NRSAGS-3-1-32X M.G. RESISTOR 10k 1/16W R315 NRSAGS-3-1-02X M.G. RESISTOR 10k 1/16W R317 NRSAGS-3-1-02X M.G. RESISTOR 10k 1/16W R318 NRSAGS-3-1-02X M.G. RESISTOR 10k 1/16W R319 NRSAGS-3-1-02X M.G. RESISTOR 1k 1/16W R319 NRSAGS-	R223	NRSA63J-103X								1/16W
R229 NRSA63-1-03X M. G.RESISTOR 10k 1/16W R229 NRSA63-1-03X M. G.RESISTOR 10k 1/16W R229 NRSA63-1-03X M. G.RESISTOR 10k 1/16W R229 NRSA63-1-03X M. G.RESISTOR 10k 1/16W R220 NRSA63-1-03X M. G.RESISTOR 3k 1/16W R220 NRSA63-1-03X M. G.RES						1 1				
R229 NRSA63-1-03X M. G.RESISTOR 10k 1/16W R314 NRSA63-1-39X M. G.RESISTOR 3.9k 1/16W R314 NRSA63-1-03X M. G.RESISTOR 3.9k 1/16W R314 NRSA63-1-03X M. G.RESISTOR 3.9k 1/16W R315 NRSA63-1-03X M. G.RESISTOR 3.9k 1/16W R316 NRSA63-1-03X M. G.RESISTOR 10k 1/16W R316 NRSA63-1-03X M. G.RESISTOR 3.9k										
R229 NRSA63J-101X M. G. RESISTOR 10k 1/16W R314 NRSA63J-392X M. G. RESISTOR 3.8k 1/16W R314 NRSA63J-302X M. G. RESISTOR 3.8k 1/16W R316 NRSA63J-101X M. G. RESISTOR 100 1/16W R317 NRSA63J-101X M. G. RESISTOR 100 1/16W R317 NRSA63J-101X M. G. RESISTOR 100 1/16W R317 NRSA63J-101X M. G. RESISTOR 100 1/16W R318 NRSA63J-101X M. G. RESISTOR 100 1/16W R318 NRSA63J-102X M. G. RESISTOR 100 1/16W R318 NRSA63J-102X M. G. RESISTOR 100 1/16W R318 NRSA63J-102X M. G. RESISTOR 100 1/16W R320 NRSA63J-302X M. G. RESISTOR 3.8k 1/16W R320 NRSA63J-102X M. G. RESISTOR 100 1/16W R320 NRSA63J-302X M. G. RESISTOR 3.8k 1/16W R320 NRSA6						R312	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R229 NRSA63-101X M.G. RESISTOR 10k 1/16W R315 NRSA63-1-05K M.G. RESISTOR 100 1/16W R316 NRSA63-1-05K M.G. RESISTOR 100 1/16W R316 NRSA63-1-05K M.G. RESISTOR 100 1/16W R317 NRSA63-1-05K M.G. RESISTOR 100 1/16W R318 NRSA63-1-05K M.G. RESISTOR 10k 1/16W R329 NRSA63-1-01X M.G. RESISTOR 10k 1/16W R329 NRSA63-1-01X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-01X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-01X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X NG RESISTOR 10k 1/16W R320 NRSA63-1-02X NG RESISTOR 10k 1/16W R320 NRSA63-1-02X NG RESISTOR 10k 1/16W R320 NRSA63-1-02X NG RESISTOR 10k 1/16W R320 NRSA63-1-02X NG RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G. RESISTOR 10k 1/16W R320 NRSA63-1-02X M.G.						D010	NIDC A CO L DOOY	M C DECICTOR	2.01	1 (1 0\A)
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R273 NRSA63J-242X M.G.RESISTOR 2.4k 1/16W R402 NRSA63J-121X M.G.RESISTOR 120 1/16W R274 NRSA63J-822X M.G.RESISTOR 8.2k 1/16W R403 NRSA63J-121X M.G.RESISTOR 120 1/16W R275 NRSA63J-822X M.G.RESISTOR 47k 1/16W R404 NRSA63J-104X M.G.RESISTOR 120 1/16W R276 NRSA63J-103X M.G.RESISTOR 10k 1/16W R404 NRSA63J-104X M.G.RESISTOR 100k 1/16W R277 NRSA63J-102X M.G.RESISTOR 1k 1/16W R405 NRSA63J-104X M.G.RESISTOR 100k 1/16W R278 NRSA63J-102X M.G.RESISTOR 1k 1/16W R406 NRSA63J-104X M.G.RESISTOR 100k 1/16W R279 NRSA63J-202X M.G.RESISTOR 2k 1/16W R408 NRSA63J-104X M.G.RESISTOR 100k 1/16W R280 NRSA63J-102X M.G.RESISTOR 1k 1/16W <t< td=""><td></td><td></td><td></td><td>3.3k</td><td>1/16W</td><td>R350</td><td>NRSA63J-392X</td><td>M.G.RESISTOR</td><td>3.9k</td><td>1/16W</td></t<>				3.3k	1/16W	R350	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R274 NRSA63J-B22X M.G.RESISTOR 8.2k 1/16W R403 NRSA63J-121X M.G.RESISTOR 120 1/16W R275 NRSA63J-473X M.G.RESISTOR 47k 1/16W R404 NRSA63J-104X M.G.RESISTOR 100k 1/16W R276 NRSA63J-103X M.G.RESISTOR 10k 1/16W R405 NRSA63J-104X M.G.RESISTOR 100k 1/16W R277 NRSA63J-102X M.G.RESISTOR 1k 1/16W R406 NRSA63J-104X M.G.RESISTOR 100k 1/16W R278 NRSA63J-102X M.G.RESISTOR 1k 1/16W R406 NRSA63J-104X M.G.RESISTOR 100k 1/16W R279 NRSA63J-202X M.G.RESISTOR 2k 1/16W R408 NRSA63J-104X M.G.RESISTOR 100k 1/16W R280 NRSA63J-102X M.G.RESISTOR 2k 1/16W R409 NRSA63J-104X M.G.RESISTOR 100k 1/16W R281 NRSA63J-102X M.G.RESISTOR 1k 1/16W <t< td=""><td>R272</td><td>NRSA63J-332X</td><td>M.G.RESISTOR</td><td>3.3k</td><td></td><td></td><td>1</td><td></td><td></td><td>1/16W</td></t<>	R272	NRSA63J-332X	M.G.RESISTOR	3.3k			1			1/16W
R275 NRSA63J-473X M.G.RESISTOR 47k 1/16W R404 NRSA63J-104X M.G.RESISTOR 100k 1/16W R276 NRSA63J-102X M.G.RESISTOR 10k 1/16W R405 NRSA63J-104X M.G.RESISTOR 100k 1/16W R277 NRSA63J-102X M.G.RESISTOR 1k 1/16W R406 NRSA63J-104X M.G.RESISTOR 100k 1/16W R278 NRSA63J-102X M.G.RESISTOR 1k 1/16W R406 NRSA63J-104X M.G.RESISTOR 100k 1/16W R279 NRSA63J-202X M.G.RESISTOR 2k 1/16W R408 NRSA63J-104X M.G.RESISTOR 100k 1/16W R280 NRSA63J-102X M.G.RESISTOR 2k 1/16W R409 NRSA63J-104X M.G.RESISTOR 100k 1/16W R281 NRSA63J-102X M.G.RESISTOR 1k 1/16W R410 NRSA63J-104X M.G.RESISTOR 1k 1/16W R282 NRSA63J-102X M.G.RESISTOR 1k 1/16W R		NRSA63J-242X				1 1				
R276 NRSA63J-103X M.G.RESISTOR 10k 1/16W R405 NRSA63J-104X M.G.RESISTOR 100k 1/16W R277 NRSA63J-102X M.G.RESISTOR 1k 1/16W R405 NRSA63J-104X M.G.RESISTOR 100k 1/16W R278 NRSA63J-102X M.G.RESISTOR 1k 1/16W R406 NRSA63J-104X M.G.RESISTOR 100k 1/16W R279 NRSA63J-202X M.G.RESISTOR 2k 1/16W R408 NRSA63J-104X M.G.RESISTOR 100k 1/16W R280 NRSA63J-102X M.G.RESISTOR 2k 1/16W R409 NRSA63J-101X M.G.RESISTOR 100k 1/16W R281 NRSA63J-102X M.G.RESISTOR 1k 1/16W R410 NRSA63J-102X M.G.RESISTOR 1k 1/16W R282 NRSA63J-102X M.G.RESISTOR 1k 1/16W R411 NRSA63J-104X M.G.RESISTOR 1k 1/16W R284 NRSA63J-102X M.G.RESISTOR 1.2k 1/16W R4										1/16W
R277 NRSA63J-102X M.G.RESISTOR 1k 1/16W R405 NRSA63J-104X M.G.RESISTOR 100k 1/16W R278 NRSA63J-102X M.G.RESISTOR 1k 1/16W R406 NRSA63J-104X M.G.RESISTOR 100k 1/16W R279 NRSA63J-202X M.G.RESISTOR 2k 1/16W R408 NRSA63J-104X M.G.RESISTOR 100k 1/16W R280 NRSA63J-202X M.G.RESISTOR 2k 1/16W R409 NRSA63J-104X M.G.RESISTOR 100k 1/16W R281 NRSA63J-102X M.G.RESISTOR 1k 1/16W R410 NRSA63J-102X M.G.RESISTOR 100 1/16W R282 NRSA63J-102X M.G.RESISTOR 1k 1/16W R410 NRSA63J-102X M.G.RESISTOR 1k 1/16W R283 NRSA63J-102X M.G.RESISTOR 1.2k 1/16W R412 NRSA63J-102X M.G.RESISTOR 1k 1/16W R284 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R4						R404	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R278 NRSA63J-102X M.G.RESISTOR 1k 1/16W R406 R407 NRSA63J-104X NRSA63J-104X M.G.RESISTOR M.G.RESISTOR 100k 1/16W 1/16W R407 R279 NRSA63J-202X M.G.RESISTOR NG.RESISTOR 2k 1/16W R408 R408 NRSA63J-104X NRSA63J-104X M.G.RESISTOR M.G.RESISTOR 100k 1/16W 1/16W R281 NRSA63J-202X NRSA63J-102X M.G.RESISTOR M.G.RESISTOR 1k 1/16W R410 R411 NRSA63J-102X N.G.RESISTOR M.G.RESISTOR 100k 1/16W R282 NRSA63J-102X NRSA63J-102X M.G.RESISTOR M.G.RESISTOR 1.2k 1/16W R412 NRSA63J-102X M.G.RESISTOR M.G.RESISTOR 1k 1/16W R284 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R412 NRSA63J-102X M.G.RESISTOR M.G.RESISTOR 1k 1/16W R284 NRSA63J-102X M.G.RESISTOR 1k 1/16W R284 NRSA63J-102X M.G.RESISTOR 1k 1/16W				1		DAGE	NIDCACOLITONY	M.C. PECICEOD	1001	1/1014/
R279 NRSA63J-202X M.G.RESISTOR 2k 1/16W R409 NRSA63J-104X M.G.RESISTOR 100k 1/16W R409 NRSA63J-104X M.G.RESISTOR 100k 1/16W R409 NRSA63J-101X M.G.RESISTOR 100k 1/16W R409 NRSA63J-101X M.G.RESISTOR 100 1/16W R410 NRSA63J-102X M.G.RESISTOR 1k 1/16W R410 NRSA63J-104X M.G.RESISTOR 1k 1/16W R410 NRSA63J-104X M.G.RESISTOR 1k 1/16W R411 NRSA63J-104X M.G.RESISTOR 100k 1/16W R412 NRSA63J-104X M.G.RESISTOR 100k 1/16W R412 NRSA63J-104X M.G.RESISTOR 100k 1/16W R412 NRSA63J-104X M.G.RESISTOR 11k 1/16W R414 NRSA63J-104X M.G.RESISTOR 11k 1/16W R414 NRSA63J-104X M.G.RESISTOR 11k 1/16W R414 NRSA63J-104X M.G.RESISTOR 11k 1/16W R414 NRSA63J-104X M.G.RESISTOR 11k 1/16W R414 NRSA63J-104X M.G.RESISTOR 11k 1/16W R415 NRSA63J-104X M.G.RESISTOR 11k 1/16W R416 NRSA63J-104X M.G.RESISTOR 11/1										
R279 NRSA63J-202X M.G.RESISTOR 2k 1/16W R408 NRSA63J-104X M.G.RESISTOR 100k 1/16W R280 NRSA63J-202X M.G.RESISTOR 2k 1/16W R409 NRSA63J-101X M.G.RESISTOR 100 1/16W R281 NRSA63J-102X M.G.RESISTOR 1k 1/16W R410 NRSA63J-102X M.G.RESISTOR 1k 1/16W R282 NRSA63J-102X M.G.RESISTOR 1k 1/16W R411 NRSA63J-104X M.G.RESISTOR 100k 1/16W R284 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R412 NRSA63J-102X M.G.RESISTOR 1k 1/16W R284 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R413 NRSA63J-102X M.G.RESISTOR 1k 1/16W	K2/8	INHSA63J-102X	IVI.G.RESISTOR	1K	1/1647					
R280 NRSA63J-202X M.G.RESISTOR 2k 1/16W R409 NRSA63J-101X M.G.RESISTOR 100 1/16W R281 NRSA63J-102X M.G.RESISTOR 1k 1/16W R410 NRSA63J-102X M.G.RESISTOR 1k 1/16W R282 NRSA63J-102X M.G.RESISTOR 1k 1/16W R411 NRSA63J-104X M.G.RESISTOR 100k 1/16W R283 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R412 NRSA63J-102X M.G.RESISTOR 1k 1/16W R284 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R413 NRSA63J-102X M.G.RESISTOR 1k 1/16W	P270	NIBS A COLLODOV	M C DECISTOD	24	1/16\\\					
R281 NRSA63J-102X M.G.RESISTOR 1k 1/16W R410 NRSA63J-102X M.G.RESISTOR 1k 1/16W R282 NRSA63J-102X M.G.RESISTOR 1k 1/16W R411 NRSA63J-104X M.G.RESISTOR 100k 1/16W R283 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R412 NRSA63J-102X M.G.RESISTOR 1k 1/16W R284 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R413 NRSA63J-102X M.G.RESISTOR 1k 1/16W						1 1				
R282 NRSA63J-102X M.G.RESISTOR 1k 1/16W R411 NRSA63J-104X M.G.RESISTOR 100k 1/16W R283 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R412 NRSA63J-102X M.G.RESISTOR 1k 1/16W R284 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R413 NRSA63J-102X M.G.RESISTOR 1k 1/16W										
R283 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R412 NRSA63J-102X M.G.RESISTOR 1k 1/16W R284 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R413 NRSA63J-102X M.G.RESISTOR 1k 1/16W				1		1 1				1/16W
R284 NRSA63J-122X M.G.RESISTOR 1.2k 1/16W R413 NRSA63J-102X M.G.RESISTOR 1k 1/16W										1/16W
1000 1000				1		1 I				1/16W
and the state of t										1/16W

Symbo No.	Part No.	Part Name	De	scription
R415	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R416	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R417	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R418	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R419	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
	NRSA63J-102X	M.G.RESISTOR	10k	1/16W
R420 R421	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R422		M.G.RESISTOR	10k	1/16W
R423		M.G.RESISTOR	10k	1/16W
R424	INDSA633-103A	W.G.RESISTON	100	1,,,,,,,,,
DAGE	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R425 R426	1	M.G.RESISTOR	8.2k	1/16W
		M.G.RESISTOR	15k	1/16W
R427		M.G.RESISTOR	270k	1/16W
R428		M.G.RESISTOR	1k	1/16W
R429			1k	1/16W
R430		M.G.RESISTOR	1.8k	1/16W
R431	NRSA63J-182X	M.G.RESISTOR		
R432		M.G.RESISTOR	1k	1/16W
R433		M.G.RESISTOR	100k	1/16W
R434	NRSA63J-104X	M.G.RESISTOR	. 100k	1/16W
			100	1/10/4/
R435		M.G.RESISTOR	100k	1/16W
R436		M.G.RESISTOR	100k	1/16W
R437		M.G.RESISTOR	470	1/16W
R438		M.G.RESISTOR	75	1/16W
R439	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R440	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W
R441	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R442	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R443		M.G.RESISTOR	330k	1/16W
R444	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
1				
R445	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R446	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R45	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R452	NRSA63J-224X	M.G.RESISTOR	220k	1/16W
R453	1	M.G.RESISTOR	220k	1/16W
R454		M.G.RESISTOR	100	1/16W
R45		M.G.RESISTOR	330k	1/16W
R456		M.G.RESISTOR	270	1/16W
R45		M.G.RESISTOR	270	1/16W
R45	1	M.G.RESISTOR	22	1/16W
1				
R45	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R46	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R46		M.G.RESISTOR	100k	1/16W
R46		M.G.RESISTOR	100k	1/16W
R46		M.G.RESISTOR	150k	1/16W
R46		M.G.RESISTOR	47	1/16W
R46	1	M.G.RESISTOR	47	1/16W
R46		M.G.RESISTOR	47	1/16W
R46		M.G.RESISTOR	47	1/16W
R46		M.G.RESISTOR	47	1/16W
"-0	141.07.000 4707			
R46	9 NRSA63J-824X	M.G.RESISTOR	820k	1/16W
R47		M.G.RESISTOR	100	1/16W
R47		M.G.RESISTOR	1k	1/16W
R47		M.G.RESISTOR	1M	1/16W
R47		M.G.RESISTOR	1M	1/16W
R47	· 1	M.G.RESISTOR	1M	1/16W
R47		M.G.RESISTOR	100	1/16W
	-	M.G.RESISTOR	33k	1/16W
R47		M.G.RESISTOR	1k	1/16W
R47		M.G.RESISTOR	100k	1/16W
R47	8 NRSA63J-104X	W.G.NESISTON	1000	1,1000
R47	9 NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R48	1	M.G.RESISTOR	100k	1/16W
R48	•	M.G.RESISTOR	10k	1/16W
		M.G.RESISTOR	0	1/16W
R48		M.G.RESISTOR	8.2k	1/16W
R48		M.G.RESISTOR	330	1/16W
R48		M.G.RESISTOR	10k	1/16W
R48			270	1/16W
R48		M.G.RESISTOR	47	1/16W
		M.G.RESISTOR	10k	1/16W
R48		M.G.RESISTOR	l lok	1/1000
R48	INNSA033-103X	Į.	I	
R48		M G RESISTOR	270	1/16W
	9 NRSA63J-271X	M.G.RESISTOR M.G.RESISTOR	270 47	1/16W 1/16W

Symbol No.	Part No.	Part Name	De	scription
R492	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R493	NRSA63J-334X	M.G.RESISTOR	330k	1/16W
R494	NRSA63J-821X	M.G.RESISTOR	820	1/16W
R495	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R496	NRSA63J-102X	M.G.RESISTOR	1k	1/16W 1/16W
R497 R498	NRSA63J-224X NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR	220k 100k	1/16W
R500	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R502	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R503	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R504	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R505	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R506	NRSA63J-104X	M.G.RESISTOR	100k	1/16W 1/16W
R507	NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR	100k 100k	1/16VV 1/16VV
R511 R512	NRSA63J-104X NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R513	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R514	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R515	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R516	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R556	NRSA63J-104X	M.G.RESISTOR	100k 100k	1/16W 1/16W
R557	NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR	100k	1/16W
R558 R559	NRSA63J-104X NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R560	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R561	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R562	NRSA63J-104X	M.G.RESISTOR	100k	1/ 1 6W
R563	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R564	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R565	NRSA63J-104X	M.G.RESISTOR	100k	1/16W 1/16W
R566	NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR	100k 100k	1/16W
R567 R568	NRSA63J-104X NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R601	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R602	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W
R603	NRSA63J-0R0X	M.G.RESISTOR	О	1/16W
R604	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R605	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R606	NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0	1/16W 1/16W
R607 R608	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R609	NRSA63J-0R0X	M.G.RESISTOR	ŏ	1/16W
R610	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W
R621	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R622	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R623 R627	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0	1/16W 1/16W
	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R630 R632	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R633	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R634	NRSA63J-0R0X	M.G.RESISTOR	ő	1/16W
R635	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R636	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R637	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R638	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R639 R640	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0	1/16W 1/16W
R641	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R642	NRSA63J-0R0X	M.G.RESISTOR	lo	1/16W
R643	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W
R645	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
R651	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R652	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R701	NRSA63J-822X	M.G.RESISTOR	8.2k 10k	1/16W 1/16W
R702	NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	1k	1/16VV 1/16W
R703 R704	NRSA63J-102X NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R705	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R706	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R707	NRSA02J-510X	M.G.RESISTOR	51	1/10W
R708	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R709	NRSA63J-330X	M.G.RESISTOR	33 1k	1/16W 1/16W
R710	NRSA63J-102X	M.G.RESISTOR	1k	1/ 1000

Symbol No.	Part No.	Part Name	Description
R711	NRSA63J-474X	M.G.RESISTOR	470k 1/16W
R712	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R713	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R714	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R715	NRSA63J-122X	M.G.RESISTOR	1.2k 1/16W
R717	NRSA63J-122X	M.G.RESISTOR	1.2k 1/16W
R718	NRSA63J-122X	M.G.RESISTOR	1.2k 1/16W
R719	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R720	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R727	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R728	NRSA02J-510X	M.G.RESISTOR	51 1/10W
VR1	QVAA15A-S14	V.RESISTOR	10k AUD1 REC L
VR2	QVAA15A-S14	V.RESISTOR	10k AUD2 REC L
VR201	PGZ01538	TRIM.RESISTOR	AUDIO MONITOR V
VR202	QVQ0031-A14	VAL.RESISTOR	10k ALARM VOL
VR261	NVP1415-103X	TRIM.RESISTOR	10k AUD1 OUT L
VR262	NVP1415-103X	TRIM.RESISTOR	10k AUD2 OUT L
C1 C2 C3 C4 C5 C6 C7 C8 C9	NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCB31HK-222X NCB31HK-222X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	220p 50V 220p 50V
C11 C12 C13 C14 C15 C16 C17 C18 C19 C20	NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X	E.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR	1 50V 1 50V 1 50V 1 50V 1 50V 1 50V 1 50V 1 50V 1 50V 1 50V
C21 C22 C23 C24 C25 C26 C27 C28 C29 C30	NEH91HM-105X NEH91HM-105X NCS31HJ-101X NCS31HJ-101X NCS31HJ-101X NCS31HJ-101X NCF31CZ-104X NCF31CZ-104X NBE41AM-106X NBE41AM-106X	E.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	1 50V 1 50V 100p 50V 100p 50V 100p 50V 100p 50V 0.1 16V 0.1 16V 10 10V
C31	NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	0.1 16V
C32	NCF31CZ-104X		0.1 16V
C33	NBE41AM-106X		10 10V
C34	NBE41AM-106X		10 10V
C35	NCS31HJ-101X		100p 50V
C36	NCS31HJ-101X		100p 50V
C47	NBE20JM-106X		10 6.3V
C48	NBE20JM-106X		10 6.3V
C49	NBE20JM-106X		10 6.3V
C50	NBE20JM-106X		10 6.3V
C51 C52 C53 C54 C55 C56 C57 C58 C59 C60	NCS31HJ-101X NCS31HJ-101X NCF31CZ-104X NCF31CZ-104X NBE41CM-106X NBE41CM-106X NBE21VM-474X NBE21VM-474X NBE21VM-474X NBE71CM-476X NBE71CM-476X	CER. CAPACITOR CER. CAPACITOR CER. CAPACITOR CER. CAPACITOR TAN. CAPACITOR	100p 50V 100p 50V 0.1 16V 0.1 16V 10 16V 10 16V 0.47 35V 0.47 35V 47 16V
C61	NBE21VM-474X	TAN.CAPACITOR	0.47 35V
C62	NBE21VM-474X	TAN.CAPACITOR	0.47 35V
C69	NCF31CZ-104X	CER.CAPACITOR	0.1 16V

Symbol No.	Part No.	Part Name	Description
C70 C73 C74 C85 C86 C87 C88	NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NBE20JM-106X NBE20JM-106X NBE20JM-106X NBE20JM-106X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	0.1 16V 0.1 16V 0.1 16V 10 6.3V 10 6.3V 10 6.3V 10 6.3V
C101 C102 C103 C104 C105 C106 C107 C108 C109 C110	NBE41CM-106X NBE41CM-106X NBE41EM-475X NBE41EM-475X NCS31HJ-101X NCS31HJ-101X NBE41CM-106X NBE41CM-106X NBE41CM-106X NBE41CM-106X	TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	10 16V 10 16V 4.7 25V 4.7 25V 100p 50V 100p 50V 10 16V 10 16V 10 16V
C113 C114 C115 C116 C117 C118 C119 C120 C121 C122	NBE51CM-226X NBE51CM-226X NCF31CZ-104X NCF31CZ-104X NBE71CM-476X NBE71CM-476X NBE51VM-476X NBE51VM-475X NCS31HJ-101X NCS31HJ-101X	TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR	22 16V 22 16V 0.1 16V 0.1 16V 47 16V 47 16V 4.7 35V 4.7 35V 100p 50V
C123 C124 C125 C126 C127 C128 C129 C130 C131 C132	NCF31CZ-104X NCF31CZ-104X NBE41AM-106X NBE41AM-106X NCF31CZ-104X NCF31CZ-104X NBE41AM-106X NBE41AM-106X NBE41AM-106X NCS31HJ-101X	CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.1 16V 10 10V 10 10V 0.1 16V 0.1 16V 10 10V 10 10V 10 10V 10 50V
C133 C134 C135 C136 C137 C138 C141 C142 C143 C144	NBE21VM-474X NBE21VM-474X NBE21EM-105X NBE21EM-105X NBE21CM-105X NBE21CM-105X NEN21VM-225X NEN21VM-225X NBE41CM-106X NBE41CM-106X NBE41CM-106X	TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR N.P.CAPACITOR N.P.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	0.47 35V 0.47 35V 1 25V 1 25V 1 16V 2.2 35V 2.2 35V 10 16V
C145 C146 C147 C148 C181 C182 C183 C184 C185 C186	NBE41EM-475X NBE41EM-475X NEN21EM-475X NEN21EM-475X NBE41CM-106X NBE41CM-106X NBE41CM-106X NBE41CM-106X NBE41CM-106X NBE51CM-226X NBE51CM-226X	TAN.CAPACITOR TAN.CAPACITOR N.P.CAPACITOR N.P.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	4.7 25V 4.7 25V 4.7 25V 4.7 25V 10 16V 10 16V 10 16V 10 16V 22 16V
C187 C188 C191 C193 C194 C201 C203 C204 C205 C206	NBE71CM-476X NBE71CM-476X NBE41CM-106X NCF31CZ-104X NBE71CM-476X NBE41CM-106X NCF31CZ-104X NCF31CZ-104X NFV41HJ-152X NFV41HJ-152X	TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR M.F.CAPACITOR M.F.CAPACITOR	47 16V 47 16V 10 16V 0.1 16V 47 16V 10 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 1500p 50V
C207 C208 C211 C212 C213 C214	NBE71CM-476X NCF31CZ-104X NCF31CZ-104X NBE41CM-106X NCF31CZ-104X NBE41CM-106X	TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR	47 16V 0.1 16V 0.1 16V 10 16V 0.1 16V 10 16V

C215	Symbol No.	Part No.	Part Name	Descriptio	n
NEE41CM-106X TAN.CAPACITOR 10		NCE21C7 104Y	CER CAPACITOR	0.1	16V
C218 NCF31CZ-104X CER.CAPACITOR 10 16V					
C218 NBE41CM-106X TAN.CAPACITOR 10 16V C227 NBE41CM-106X TAN.CAPACITOR 10 16V C228 NE41CM-106X TAN.CAPACITOR 10 16V C229 NCF31CZ-104X C267.CAPACITOR 10 16V C270 NCF31CZ-104X C267.CAPACITOR 10 16V C270 NCF31CZ-104X C267.CAPACITOR 10 16V C272 NBE41CM-106X TAN.CAPACITOR 10 16V C272 NCF31CZ-104X C2F3.CAPACITOR 0.1 16V C273 NCF31HJ-102X C2F3.CAPACITOR 0.1 16V C274 NCF31CZ-104X C2F3.CAPACITOR 0.1 16V C275 NCF31HJ-102X C2F3.CAPACITOR 0.1 16V C276 NCF31HJ-102X C277 NCF31HJ-102X C277 NCF31HJ-101X C277 NCF31CZ-104X C277 NCF31HJ-101X C277 NCF31CZ-104X C277					
C219 NCE31CZ-104X C227 NBE41CM-106X C228 NBE41CM-106X C229 NCF31CZ-104X C230 NCF31CZ-104X C230 NCF31CZ-104X C230 NCF31CZ-104X C230 NCF31CZ-104X C231 NBE41CM-106X C232 NBE41CM-106X C232 NBE41CM-106X C233 NCF31CZ-104X C26R.CAPACITOR 0.1 16V C233 NCF31CZ-104X C270 NCF31CZ-105X C770 NC					
C225 NBE41CM-106X TAN CAPACITOR 10 16V	CZIO	NBL41CIVETOOX	IAN.OAI ACITON		
NEBATICM 108X CER.CAPACITOR 10	C219	NCF31CZ-104X	CER.CAPACITOR	0.1	
C228 NBE41CM-106X TAN.CAPACITOR 10 16V C229 NCF31CZ-104X CER.CAPACITOR 0.1 16V C231 NBE41CM-106X TAN.CAPACITOR 10 16V C232 NBE41CM-106X TAN.CAPACITOR 10 16V C233 NCF31CZ-104X CER.CAPACITOR 0.1 16V C234 NCF31CZ-104X CER.CAPACITOR 0.1 16V C236 NBE41CM-106X TAN.CAPACITOR 10 16V C237 NBE41CM-106X TAN.CAPACITOR 10 16V C240 NCF31CZ-104X CER.CAPACITOR 10 16V C240 NCF31CZ-104X CER.CAPACITOR 10 16V C242 NCF31CZ-104X CER.CAPACITOR 0.1 16V C242	C227	NBE41CM-106X	TAN.CAPACITOR	10	16V
C232 NBE41CM-108X TAN.CAPACITOR 10 16V		NBE41CM-106X	TAN.CAPACITOR	10	16V
C230 NCF31CZ-104X CER.CAPACITOR 0.1 16V C231 NBEA1CM-106X TAN.CAPACITOR 10 16V C233 NCF31CZ-104X CER.CAPACITOR 0.1 16V C234 NCF31CZ-104X CER.CAPACITOR 0.1 16V C235 NBE41CM-106X TAN.CAPACITOR 10 16V C236 NBE41CM-106X TAN.CAPACITOR 10 16V C237 NBE41CM-106X TAN.CAPACITOR 10 16V C240 NCF31CZ-104X CER.CAPACITOR 10 16V C240 NCF31CZ-104X CER.CAPACITOR 0.1 16V C241 NEF31CZ-104X CER.CAPACITOR 0.1 16V C252 NCS31HK-102X CER.CAPACITOR 0.1 16V C253 NCS31HK-102X CER.CAPACITOR 0.1 16V C261 NCS31HK-102X CER.CAPACITOR 0.0 50V C262 NCS31HK-102X CER.CAPACITOR 0.0 50V C263	C229	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C231 NBEA1CM-106X TAN.CAPACITOR 10 16V C232 NBEA1CM-106X TAN.CAPACITOR 10 16V C234 NCF31CZ-104X CER.CAPACITOR 0.1 16V C235 NBEA1CM-106X TAN.CAPACITOR 10 16V C236 NBEA1CM-106X TAN.CAPACITOR 10 16V C237 NBEA1CM-106X TAN.CAPACITOR 10 16V C238 NBEA1CM-106X TAN.CAPACITOR 10 16V C238 NBEA1CM-106X TAN.CAPACITOR 10 16V C240 NCF31CZ-104X CER.CAPACITOR 10 16V C241 NCF31CZ-104X CER.CAPACITOR 0.1 16V C242 NCF31CZ-104X CER.CAPACITOR 0.1 16V C242 NCF31CZ-104X CER.CAPACITOR 0.1 16V C252 NCS31HK-102X CER.CAPACITOR 0.1 16V C252 NCS31HK-102X CER.CAPACITOR 0.1 16V C261		NCF31CZ-104X	CER.CAPACITOR	0.1	
C234 NCF31C2-104X CER.CAPACITOR 0.1 16V CER.CAPACITOR 10 16V CER.CAPACITOR 1000p 50V CER.CAPACITOR 100p 50V		NBE41CM-106X	TAN.CAPACITOR	10	
C234 NCF31CZ-104X C28E CAPACITOR 0.1 16V C236 NBE41CM-106X TAN.CAPACITOR 10 16V C237 NBE41CM-106X TAN.CAPACITOR 10 16V C238 NBE41CM-106X TAN.CAPACITOR 10 16V C238 NBE41CM-106X TAN.CAPACITOR 10 16V C240 C240 C241 C241 C241 C242 C241 C242 C242 C242 C242 C242 C242 C243 C244 C245 C244 C245 C244 C244 C245 C244 C244 C244 C244 C244 C244 C245 C244 C244 C244 C245 C244 C245 C244 C245 C244 C245	C232	NBE41CM-106X	TAN.CAPACITOR	10	
C236 NBE41CM-106X TAN.CAPACITOR 10 16V C236 NBE41CM-106X TAN.CAPACITOR 10 16V TAN.CAPACITOR 10 10V TAN.CAPACITOR 10 10V TAN.CAPACITOR 1000p 50V TAN.CAPACITOR 100p 50	C233	NCF31CZ-104X	CER.CAPACITOR		
C236 NBE41CM-106X TAN.CAPACITOR 10 16V C237 NBE41CM-106X TAN.CAPACITOR 10 16V C241 NCF31CZ-104X CER.CAPACITOR 10 16V C242 NCF31CZ-104X CER.CAPACITOR 10 16V C242 NCF31CZ-104X CER.CAPACITOR 10 16V C242 NCF31CZ-104X CER.CAPACITOR 0.1 16V C242 NCF31CZ-104X CER.CAPACITOR 0.1 16V C244 NCF31CZ-104X CER.CAPACITOR 0.1 16V C245 NCF31CZ-104X CER.CAPACITOR 0.1 16V C255 NCB31HK-102X CER.CAPACITOR 0.1 16V C253 NCB31HK-102X CER.CAPACITOR 1000p 50V C261 NCB31HK-102X CER.CAPACITOR 1000p 50V C261 NCB31HK-102X CER.CAPACITOR 1000p 50V C261 NCB31HK-102X CER.CAPACITOR 1000p 50V C263 NCS21HJ-860X CER.CAPACITOR 68p 50V C264 NCS21HJ-860X CER.CAPACITOR 68p 50V C265 NBE41CM-106X TAN.CAPACITOR 10 16V C267 NBE61EM-226X TAN.CAPACITOR 10 16V C268 NBE61EM-226X TAN.CAPACITOR 22 25V C269 NCS31HJ-101X CER.CAPACITOR 22 25V C269 NCS31HJ-101X CER.CAPACITOR 100p 50V CER.CAPACITOR 100p 50V CC73 NCB31HK-22X TAN.CAPACITOR 22 25V C279 NCS31HJ-101X CER.CAPACITOR 100p 50V CER.CAPACITOR 22 25V C279 NCB31HK-22X TAN.CAPACITOR 22 25V C279 NCB31HX-22X TAN.CAPACITOR 22 25V C279 NCB31HX-22X TAN.CAPACITOR 22 25V C279 NCB31C3-104X CER.CAPACITOR 100p 50V CER.CAPACITOR 22 25V NCP31CZ-104X CER.CAPACITOR 10 25V CAPACITOR 10 25V NCP31CZ-104X CER.CAPACITOR 12 2 25V NCP31CZ-104X CER.CAPACITOR 12 2 25V NCP31CZ-104X CER.CAPACITOR 10 25V CAPACITOR 10 25V NCP31CZ-104X CER.CAPACITOR 10 25V CAPACITOR 10 25V NCP31CZ-104X CER.CAPACITOR 10 16V C280 NCP31CZ-104X CER.CAPACITOR 10 25V CAPACITOR 10 25V NCP31CZ-104X CER.CAPACITOR 10 16V C280 NCP31CZ-104X CER.CAPACITOR 10 16V C280 NCP31CZ-104X CER.CAPACITOR 10 16V C280 NCP31CZ-104X CER.CAPACITOR 10 16V C280 NCP31CZ-104X CER.CAPACITOR 10 16V C280 NCP31CZ-104X CER.CAPACITOR 10 16V C280 NCP31CZ-104X CER.CAPACITOR 10 16V C280 NCP31CZ-104X CER.CAPACITOR 10 16V C280 NCP31CZ-104X CER.CAPACITOR 10 100p 50V C280 NCP31CZ-	C234	NCF31CZ-104X			
C237 NBE41CM-106X	C235	NBE41CM-106X	TAN.CAPACITOR	10	16V
C237 NBE41CM-106X	0000	NIDE 41 CN 4 10CV	TAN CADACITOR	10	16\/
C236				i e	
C240 NCF31C2-104X CER.CAPACITOR 10 16V C242 NCF31C2-104X CER.CAPACITOR 0.1 16V C242 NCF31C2-104X CER.CAPACITOR 0.1 16V C242 NCF31C2-104X CER.CAPACITOR 0.1 16V C252 NCF31C2-104X CER.CAPACITOR 0.1 16V C252 NCF31C2-104X CER.CAPACITOR 1000p 50V C252 NCF31C2-104X CER.CAPACITOR 1000p 50V C253 NCB31HK-102X CER.CAPACITOR 1000p 50V C264 NCB31HK-102X CER.CAPACITOR 1000p 50V C265 NCB31HK-102X CER.CAPACITOR 68p 50V C264 NCS21HJ-860X CER.CAPACITOR 68p 50V C265 NEB41CM-106X TAN.CAPACITOR 10 16V TAN.CA			1		
NBE41CM-108X					
C242 NCF31CZ-104X CER.CAPACITOR 0.1 16V C252 NCF31CZ-104X CER.CAPACITOR 0.1 16V C252 NCF31CZ-104X CER.CAPACITOR 0.1 16V C252 NCB31HK-102X CER.CAPACITOR 1000p 50V C263 NCB31HK-102X CER.CAPACITOR 1000p 50V C263 NCS21HJ-680X CER.CAPACITOR 1000p 50V C263 NCS21HJ-680X CER.CAPACITOR 68p 50V C264 NCS21HJ-680X CER.CAPACITOR 68p 50V C264 NCS21HJ-680X CER.CAPACITOR 68p 50V C265 NBE41CM-106X TAN.CAPACITOR 10 16V TAN.CAPACITOR 100p 50V C273 NCB31HJ-101X CER.CAPACITOR 100p 50V C273 NCB31HK-222X CER.CAPACITOR 100p 50V C273 NCB31HK-222X CER.CAPACITOR 100p 50V C274 NE61EM-256X TAN.CAPACITOR 122 25V TAN.CAPACITOR 100p 50V C275 NE61EM-26X TAN.CAPACITOR 100p 50V C276 NBE41EM-475X TAN.CAPACITOR 22 25V TAN.CAPACITOR 22					
C244					
C252 NCP31CZ-104X CER.CAPACITOR 0.1 16V C253 NCB31HK-102X CER.CAPACITOR 1000p 50V C261 NCB31HK-102X CER.CAPACITOR 1000p 50V C262 NCS21HJ-680X CER.CAPACITOR 68p 50V C263 NSE41CM-106X CER.CAPACITOR 68p 50V C264 NSE31HM-106X TAN.CAPACITOR 10 16V C266 NBE41CM-106X TAN.CAPACITOR 10 16V C267 NBE61EM-226X TAN.CAPACITOR 10 16V C268 NBE61EM-226X TAN.CAPACITOR 22 25V C270 NCS31H-101X CER.CAPACITOR 22 25V C270 NCS31H-101X CER.CAPACITOR 100p 50V C275 NBE41EM-475X TAN.CAPACITOR 22 25V C276 NBE41EM-475X TAN.CAPACITOR 4.7 25V C275 NCF31CZ-104X CER.CAPACITOR 0.1 16V C276					
C283 NCB31HK-102X CER.CAPACITOR 1000p 50V C281 NCB31HK-102X CER.CAPACITOR 1000p 50V C262 NCB31HK-102X CER.CAPACITOR 1000p 50V C263 NCS21HJ-680X CER.CAPACITOR 68p 50V C265 NBE41CM-106X TAN.CAPACITOR 10 16V C266 NBE61EM-226X TAN.CAPACITOR 10 16V C267 NBE61EM-226X TAN.CAPACITOR 10 16V C268 NBE61EM-226X TAN.CAPACITOR 10 50V C270 NCS31H-101X CER.CAPACITOR 100p 50V C273 NCB31HK-222X CER.CAPACITOR 100p 50V C274 NCB31HK-222X CER.CAPACITOR 2200p 50V C275 NBE41EM-475X TAN.CAPACITOR 4.7 25V C276 NBE51EM-106X TAN.CAPACITOR 22 25V C278 NBE51EM-106X CER.CAPACITOR 0.1 16V C28					
C281 NCB31HK-102X CER.CAPACITOR 1000p 50V C262 NCB31HK-102X CER.CAPACITOR 1000p 50V C263 NCS21HJ-680X CER.CAPACITOR 68p 50V C264 NCS21HJ-680X CER.CAPACITOR 10 16V C265 NBE41CM-106X TAN.CAPACITOR 10 16V C267 NBE61EM-226X TAN.CAPACITOR 22 25V C268 NBE61EM-226X TAN.CAPACITOR 22 25V C278 NBE61EM-226X TAN.CAPACITOR 22 25V C279 NCS31HJ-101X CER.CAPACITOR 22 25V C270 NCS31HJ-101X CER.CAPACITOR 2200p 50V C273 NCB31HK-222X CER.CAPACITOR 2200p 50V C275 NBE41EM-475X TAN.CAPACITOR 4.7 25V C276 NBE61EM-226X TAN.CAPACITOR 4.7 25V C277 NBE61EM-226X TAN.CAPACITOR 0.1 16V C278<					
C262 NCB31HK-102X CER.CAPACITOR 1000p 50V C264 NCS21HJ-680X CER.CAPACITOR 68p 50V C264 NCS21HJ-680X CER.CAPACITOR 68p 50V C266 NBE41CM-106X TAN.CAPACITOR 10 16V C267 NBE61EM-226X TAN.CAPACITOR 10 16V C268 NBE61EM-226X TAN.CAPACITOR 22 25V C269 NCS31HJ-101X CER.CAPACITOR 100p 50V C270 NCS31HJ-101X CER.CAPACITOR 100p 50V C273 NCB31HK-222X CER.CAPACITOR 22 25V C273 NCB31HK-222X CER.CAPACITOR 200p 50V C275 NBE41EM-475X TAN.CAPACITOR 4.7 25V C277 NBE61EM-226X TAN.CAPACITOR 4.7 25V C277 NBE61EM-226X TAN.CAPACITOR 0.1 16V C279 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
C263 NCS21HJ-680X CER.CAPACITOR 68p 50V C264 NCS21HJ-680X CER.CAPACITOR 68p 50V C265 NBE41CM-106X TAN.CAPACITOR 10 16V C266 NBE41CM-106X TAN.CAPACITOR 10 16V C267 NBE61EM-226X TAN.CAPACITOR 22 25V C268 NBE61EM-226X TAN.CAPACITOR 22 25V C268 NBE61EM-226X TAN.CAPACITOR 22 25V C270 NCS31HJ-101X CER.CAPACITOR 100p 50V C271 NCS31HJ-101X CER.CAPACITOR 100p 50V C272 NCS31HJ-101X CER.CAPACITOR 2200p 50V C275 NBE41EM-475X TAN.CAPACITOR 4.7 25V C276 NBE61EM-476X TAN.CAPACITOR 4.7 25V C277 NBE61EM-106X TAN.CAPACITOR 2.2 25V C278 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 <td>C261</td> <td>NCB31HK-102X</td> <td>CER.CAPACITOR</td> <td>ТОООР</td> <td>300</td>	C261	NCB31HK-102X	CER.CAPACITOR	ТОООР	300
C263 NCS21HJ-680X CER.CAPACITOR 68p 50V C264 NCS21HJ-680X CER.CAPACITOR 68p 50V C265 NBE41CM-106X TAN.CAPACITOR 10 16V C266 NBE41CM-106X TAN.CAPACITOR 10 16V C267 NBE61EM-226X TAN.CAPACITOR 22 25V C268 NBE61EM-226X TAN.CAPACITOR 22 25V C270 NCS31HJ-101X CER.CAPACITOR 100p 50V C270 NCS31HJ-101X CER.CAPACITOR 100p 50V C273 NCB31HK-222X CER.CAPACITOR 100p 50V C275 NBE61EM-475X TAN.CAPACITOR 2200p 50V C276 NBE61EM-476X TAN.CAPACITOR 4.7 25V C277 NBE61EM-476X TAN.CAPACITOR 4.7 25V C279 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 </td <td>C262</td> <td>NCB31HK-102X</td> <td>CER.CAPACITOR</td> <td>1000p</td> <td>50V</td>	C262	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C264 NCS21HJ-680X CER.CAPACITOR 68p 50V C265 NBE41CM-106X TAN.CAPACITOR 10 16V C267 NBE61EM-226X TAN.CAPACITOR 10 16V C268 NBE61EM-226X TAN.CAPACITOR 22 25V C269 NCS31HJ-101X CER.CAPACITOR 100p 50V C270 NCS31HJ-101X CER.CAPACITOR 100p 50V C275 NCS31HJ-101X CER.CAPACITOR 100p 50V C275 NBE41EM-475X TAN.CAPACITOR 2200p 50V C275 NBE41EM-475X TAN.CAPACITOR 4.7 25V C276 NBE61EM-226X TAN.CAPACITOR 4.7 25V C277 NCF31CZ-104X CER.CAPACITOR 10 25V C278 NCF31CZ-104X CER.CAPACITOR 11 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 <td>•</td> <td></td> <td></td> <td></td> <td>50V</td>	•				50V
C285 NBE41CM-106X TAN.CAPACITOR 10 16V C266 NBE41CM-106X TAN.CAPACITOR 10 16V C267 NBE61EM-226X TAN.CAPACITOR 22 25V C268 NBE61EM-226X TAN.CAPACITOR 22 25V C269 NCS31HJ-101X CER.CAPACITOR 100p 50V C270 NCS31HJ-101X CER.CAPACITOR 100p 50V C273 NCS31HJ-101X CER.CAPACITOR 100p 50V C273 NCS31HJ-101X CER.CAPACITOR 100p 50V C275 NCB31HK-222X CER.CAPACITOR 2200p 50V C276 NBE41EM-475X TAN.CAPACITOR 4.7 25V C276 NBE61EM-475X TAN.CAPACITOR 4.7 25V C277 NBE61EM-475X TAN.CAPACITOR 4.7 25V C278 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281<					50∨
C266 NBE41CM-106X TAN.CAPACITOR 10 16V C267 NBE61EM-226X TAN.CAPACITOR 22 25V C268 NBE61EM-226X TAN.CAPACITOR 22 25V C269 NCS31HJ-101X CER.CAPACITOR 100p 50V C270 NCS31HJ-101X CER.CAPACITOR 100p 50V C273 NCB31HK-222X CER.CAPACITOR 100p 50V C275 NBE41EM-475X TAN.CAPACITOR 2200p 50V C276 NBE61EM-226X TAN.CAPACITOR 4.7 25V C277 NBE61EM-475X TAN.CAPACITOR 4.7 25V C277 NBE61EM-226X TAN.CAPACITOR 10 25V C279 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C288 NBE71CM-476X TAN.CAPACITOR 47 16V C280 <td></td> <td></td> <td></td> <td>10</td> <td>16V</td>				10	16V
C267 NBE61EM-226X TAN.CAPACITOR 22 25V C268 NSE61EM-226X TAN.CAPACITOR 22 25V C269 NCS31HJ-101X CER.CAPACITOR 100p 50V C270 NCS31HJ-101X CER.CAPACITOR 100p 50V C273 NCB31HJ-101X CER.CAPACITOR 100p 50V C275 NBE41EM-475X TAN.CAPACITOR 4.7 25V C276 NBE41EM-475X TAN.CAPACITOR 4.7 25V C277 NBE61EM-226X TAN.CAPACITOR 4.7 25V C277 NBE61EM-226X TAN.CAPACITOR 10 25V C278 NBE61EM-206X TAN.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NGF31CZ-104X CER.CAPACITOR 0.1 16V C283 NBE71CM-476X TAN.CAPACITOR 47 16V C284 <td>1</td> <td></td> <td></td> <td>10</td> <td>16V</td>	1			10	16V
C268 NBE61EM-226X TAN.CAPACITOR 22 25V C269 NCS31HJ-101X CER.CAPACITOR 100p 50V C270 NCS31HJ-101X CER.CAPACITOR 100p 50V C273 NCB31HK-222X CER.CAPACITOR 1200p 50V C275 NBE41EM-475X TAN.CAPACITOR 4.7 25V C276 NBE61EM-226X TAN.CAPACITOR 4.7 25V C277 NBE61EM-226X TAN.CAPACITOR 22 25V C278 NBE51EM-106X TAN.CAPACITOR 10 25V C279 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C283 NBE61EM-226X TAN.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 </td <td>1</td> <td></td> <td>TAN CAPACITOR</td> <td>22</td> <td>25V</td>	1		TAN CAPACITOR	22	25V
C269 NCS31HJ-101X CER.CAPACITOR 100p 50V C270 NCS31HJ-101X CER.CAPACITOR 100p 50V C275 NCS31HJ-101X CER.CAPACITOR 2200p 50V C276 NBE41EM-475X TAN.CAPACITOR 4.7 25V C276 NBE41EM-475X TAN.CAPACITOR 4.7 25V C277 NBE51EM-106X TAN.CAPACITOR 22 25V C278 NBE51EM-106X TAN.CAPACITOR 10 25V C279 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C283 NBE71CM-476X TAN.CAPACITOR 47 16V C288 NBE71CM-476X TAN.CAPACITOR 47 16V C289 NBE71CM-476X TAN.CAPACITOR 47 16V C301 <td>ľ</td> <td></td> <td></td> <td>22</td> <td>25V</td>	ľ			22	25V
C270 NCS31HJ-101X CER.CAPACITOR 100p 50V C273 NCB31HK-222X CER.CAPACITOR 2200p 50V CER.CAPACITOR 2200p 50V CER.CAPACITOR 2200p 50V CER.CAPACITOR 2200p 50V CER.CAPACITOR 4.7 25V C276 NBE41EM-475X TAN.CAPACITOR 4.7 25V C277 NBE61EM-226X TAN.CAPACITOR 22 25V C278 NBE51EM-106X TAN.CAPACITOR 10 25V C279 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C289 NBE71CM-476X TAN.CAPACITOR 22 25V C287 NCF31CZ-104X CER.CAPACITOR 0.1 16V C289 NBE71CM-476X TAN.CAPACITOR 47 16V C290 NCF31CZ-104X CER.CAPACITOR 0.1 16V C301 NCS31HJ-821X CER.CAPACITOR 47 16V C301 NCS31HJ-821X CER.CAPACITOR 820p 50V C303 NBE41EM-475X TAN.CAPACITOR 820p 50V C303 NBE41EM-475X TAN.CAPACITOR 4.7 25V C303 NCS31HJ-880X CER.CAPACITOR 4.7 25V C303 NCS31HJ-880X CER.CAPACITOR 68p 50V C306 NCS31HJ-880X CER.CAPACITOR 68p 50V C306 NCS31HJ-80X CER.CAPACITOR 0.027 50V C310 NCS31HJ-101X CER.CAPACITOR 100p 50V C310 NCS31HJ-101X CER.CAPACITOR 100p 50V C310 NCS31HJ-101X CER.CAPACITOR 100p 50V C310 NCS31HJ-101X CER.CAPACITOR 100p 50V C310 NBE71CM-476X TAN.CAPACITOR 47 16V NBE71CM-476X TAN.CAPACITOR 100p 50V NBE51CM-226X TAN.CAPACITOR 22 16				100p	50V
C273 NCB31HK-222X CER.CAPACITOR 2200p 50V C275 NBE41EM-475X TAN.CAPACITOR 4.7 25V C276 NBE41EM-475X TAN.CAPACITOR 4.7 25V C277 NBE61EM-226X TAN.CAPACITOR 22 25V C278 NBE51EM-106X TAN.CAPACITOR 10 25V C279 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C283 NBE61EM-226X TAN.CAPACITOR 22 25V C284 NBE71CM-476X TAN.CAPACITOR 27 16V C288 NBE71CM-476X TAN.CAPACITOR 47 16V C289 NBE71CM-476X TAN.CAPACITOR 47 16V C301 NCS31HJ-821X CER.CAPACITOR 820p 50V C303					50V
C276 NBE41EM-475X TAN.CAPACITOR 4.7 25V C277 NBE61EM-226X TAN.CAPACITOR 22 25V C278 NBE51EM-106X TAN.CAPACITOR 10 25V C279 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C283 NBE61EM-226X TAN.CAPACITOR 0.1 16V C284 NCF31CZ-104X CER.CAPACITOR 0.1 16V C285 NBE61EM-226X TAN.CAPACITOR 0.1 16V C286 NBE71CM-476X TAN.CAPACITOR 0.1 16V C287 NCF31CZ-104X CER.CAPACITOR 0.1 16V C288 NBE71CM-476X TAN.CAPACITOR 47 16V C290 NCF31CZ-104X CER.CAPACITOR 47 16V C301 NCS31HJ-821X CER.CAPACITOR 820p 50V C302 NCS31HJ-821X CER.CAPACITOR 820p 50V C303 NBE41EM-475X TAN.CAPACITOR 4.7 25V C304 NBE41EM-475X TAN.CAPACITOR 4.7 25V C305 NCS31HJ-680X CER.CAPACITOR 68p 50V C306 NCS31HJ-680X CER.CAPACITOR 68p 50V C307 NFV41HJ-273X M.F. CAPACITOR 68p 50V C309 NCS31HJ-101X CER.CAPACITOR 100p 50V C310 NCS31HJ-101X CER.CAPACITOR 100p 50V C311 NBE71CM-476X TAN.CAPACITOR 47 16V C312 NBE71CM-476X TAN.CAPACITOR 47 16V C313 NBE71CM-476X TAN.CAPACITOR 47 16V C314 NBE71CM-476X TAN.CAPACITOR 47 16V C315 NEN21CM-476X TAN.CAPACITOR 47 16V C316 NEN21CM-476X TAN.CAPACITOR 47 16V C317 NCS31HJ-101X CER.CAPACITOR 47 16V C318 NE71CM-476X TAN.CAPACITOR 47 16V C316 NEN21CM-106X N.P.CAPACITOR 100p 50V C317 NCS31HJ-101X CER.CAPACITOR 47 16V C318 NCS31HJ-101X CER.CAPACITOR 100p 50V C319 NCS31HJ-101X CER.CAPACITOR 100p 50V C320 NCS31HJ-101X CER.CAPACITOR 100p 50V C321 NBE51CM-226X TAN.CAPACITOR 100p 50V C322 NCS31HJ-101X CER.CAPACITOR 100p 50V C323 NBE51CM-226X TAN.CAPACITOR 100p 50V C324 NBE51CM-226X TAN.CAPACITOR 100p 50V C325 NEB51CM-226X TAN.CAPACITOR 100p 50V C326 NEB51CM-226X TAN.CAPACITOR 100p 50V C327 NBE51CM-226X TAN.CAPACITOR 100p 50V C328 NBE51CM-226X TAN.CAPACITOR 122 16V C325 NEN41EM-226X NP.P.CAPACITOR 122 16V C326 NEN41EM-226X NP.P.CAPACITOR 122 16V C327 NED51CM-226X TAN.CAPACITOR 122 16V C328 NEN41EM-226X NP.P.CAPACITOR 122 16V C326 NEN41EM-226X NP.P.CAPACITOR 122 16V				2200p	50V
C276 NBE41EM-475X TAN.CAPACITOR 4.7 25V C277 NBE61EM-226X TAN.CAPACITOR 22 25V C278 NBE51EM-106X TAN.CAPACITOR 10 25V C279 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C283 NBE61EM-226X TAN.CAPACITOR 0.1 16V C284 NCF31CZ-104X CER.CAPACITOR 0.1 16V C285 NBE61EM-226X TAN.CAPACITOR 0.1 16V C286 NBE71CM-476X TAN.CAPACITOR 0.1 16V C287 NCF31CZ-104X CER.CAPACITOR 0.1 16V C288 NBE71CM-476X TAN.CAPACITOR 47 16V C290 NCF31CZ-104X CER.CAPACITOR 47 16V C301 NCS31HJ-821X CER.CAPACITOR 820p 50V C302 NCS31HJ-821X CER.CAPACITOR 820p 50V C303 NBE41EM-475X TAN.CAPACITOR 4.7 25V C304 NBE41EM-475X TAN.CAPACITOR 4.7 25V C305 NCS31HJ-680X CER.CAPACITOR 68p 50V C306 NCS31HJ-680X CER.CAPACITOR 68p 50V C307 NFV41HJ-273X M.F. CAPACITOR 68p 50V C309 NCS31HJ-101X CER.CAPACITOR 100p 50V C310 NCS31HJ-101X CER.CAPACITOR 100p 50V C311 NBE71CM-476X TAN.CAPACITOR 47 16V C312 NBE71CM-476X TAN.CAPACITOR 47 16V C313 NBE71CM-476X TAN.CAPACITOR 47 16V C314 NBE71CM-476X TAN.CAPACITOR 47 16V C315 NEN21CM-476X TAN.CAPACITOR 47 16V C316 NEN21CM-476X TAN.CAPACITOR 47 16V C317 NCS31HJ-101X CER.CAPACITOR 47 16V C318 NE71CM-476X TAN.CAPACITOR 47 16V C316 NEN21CM-106X N.P.CAPACITOR 100p 50V C317 NCS31HJ-101X CER.CAPACITOR 47 16V C318 NCS31HJ-101X CER.CAPACITOR 100p 50V C319 NCS31HJ-101X CER.CAPACITOR 100p 50V C320 NCS31HJ-101X CER.CAPACITOR 100p 50V C321 NBE51CM-226X TAN.CAPACITOR 100p 50V C322 NCS31HJ-101X CER.CAPACITOR 100p 50V C323 NBE51CM-226X TAN.CAPACITOR 100p 50V C324 NBE51CM-226X TAN.CAPACITOR 100p 50V C325 NEB51CM-226X TAN.CAPACITOR 100p 50V C326 NEB51CM-226X TAN.CAPACITOR 100p 50V C327 NBE51CM-226X TAN.CAPACITOR 100p 50V C328 NBE51CM-226X TAN.CAPACITOR 122 16V C325 NEN41EM-226X NP.P.CAPACITOR 122 16V C326 NEN41EM-226X NP.P.CAPACITOR 122 16V C327 NED51CM-226X TAN.CAPACITOR 122 16V C328 NEN41EM-226X NP.P.CAPACITOR 122 16V C326 NEN41EM-226X NP.P.CAPACITOR 122 16V			T		251/
C277 NBE61EM-226X TAN.CAPACITOR 22 25V C278 NBE51EM-106X TAN.CAPACITOR 10 25V C279 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C283 NBE61EM-226X TAN.CAPACITOR 0.1 16V C287 NCF31CZ-104X CER.CAPACITOR 0.1 16V C287 NCF31CZ-104X CER.CAPACITOR 0.1 16V C289 NBE71CM-476X TAN.CAPACITOR 47 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C290 NCF31CZ-104X CER.CAPACITOR 47 16V C290 NCF31CZ-104X CER.CAPACITOR 47 16V C290 NCS31HJ-821X CER.CAPACITOR 820p 50V C301 NCS31HJ-821X CER.CAPACITOR 820p 50V C302 NCS31HJ-821X CER.CAPACITOR 820p 50V C303 NBE41EM-475X TAN.CAPACITOR 4.7 25V C304 NBE41EM-475X TAN.CAPACITOR 4.7 25V C306 NCS31HJ-680X CER.CAPACITOR 68p 50V C306 NCS31HJ-680X CER.CAPACITOR 68p 50V C307 NFV41HJ-273X M.F. CAPACITOR 68p 50V C307 NFV41HJ-273X M.F. CAPACITOR 0.027 50V NCS31HJ-101X CER.CAPACITOR 100p 50V C310 NCS31HJ-101X CER.CAPACITOR 100p 50V C310 NCS31HJ-101X CER.CAPACITOR 100p 50V C311 NBE71CM-476X TAN.CAPACITOR 47 16V C312 NBE71CM-476X TAN.CAPACITOR 47 16V C313 NBE71CM-476X TAN.CAPACITOR 47 16V C314 NBE71CM-476X TAN.CAPACITOR 47 16V C315 NEN21CM-476X TAN.CAPACITOR 47 16V NCS31HJ-101X CER.CAPACITOR 100p 50V NCS31HJ-101X CE					
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C279 NCF31CZ-104X CER.CAPACITOR 0.1 16V C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C283 NBE61EM-226X TAN.CAPACITOR 22 25V C287 NCF31CZ-104X CER.CAPACITOR 22 25V C288 NBE71CM-476X TAN.CAPACITOR 47 16V C289 NBE71CM-476X TAN.CAPACITOR 47 16V C290 NCF31CZ-104X CER.CAPACITOR 47 16V C301 NCS31HJ-821X CER.CAPACITOR 47 16V C301 NCS31HJ-821X CER.CAPACITOR 820p 50V C302 NCS31HJ-821X CER.CAPACITOR 4.7 25V C303 NBE41EM-475X TAN.CAPACITOR 4.7 25V C304 NBE41EM-475X TAN.CAPACITOR 4.7 25V C305					
C280 NCF31CZ-104X CER.CAPACITOR 0.1 16V C281 NCF31CZ-104X CER.CAPACITOR 0.1 16V C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C283 NBE61EM-226X TAN.CAPACITOR 22 25V C287 NCF31CZ-104X CER.CAPACITOR 0.1 16V C288 NBE71CM-476X TAN.CAPACITOR 47 16V C289 NBE71CM-476X TAN.CAPACITOR 47 16V C289 NBE71CM-476X TAN.CAPACITOR 47 16V C301 NCS31HJ-821X CER.CAPACITOR 0.1 16V C302 NCS31HJ-821X CER.CAPACITOR 820p 50V C303 NBE41EM-475X CER.CAPACITOR 4.7 25V C304 NBE41EM-475X TAN.CAPACITOR 4.7 25V C305 NCS31HJ-680X CER.CAPACITOR 68p 50V C306 NCS31HJ-680X CER.CAPACITOR 68p 50V C307				1	
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C282 NCF31CZ-104X CER.CAPACITOR 0.1 16V C283 NBE61EM-226X TAN.CAPACITOR 22 25V C287 NCF31CZ-104X CER.CAPACITOR 0.1 16V C288 NBE71CM-476X TAN.CAPACITOR 47 16V C289 NBE71CM-476X TAN.CAPACITOR 47 16V C290 NCF31CZ-104X CER.CAPACITOR 47 16V C301 NCS31HJ-821X CER.CAPACITOR 820p 50V C302 NCS31HJ-821X CER.CAPACITOR 820p 50V C302 NCS31HJ-821X CER.CAPACITOR 820p 50V C303 NBE41EM-475X TAN.CAPACITOR 4.7 25V C304 NBE41EM-475X TAN.CAPACITOR 4.7 25V C305 NCS31HJ-680X CER.CAPACITOR 68p 50V C306 NFV41HJ-273X M.F. CAPACITOR 0.027 50V C308 NFV41HJ-273X M.F. CAPACITOR 0.027 50V C3					
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C3ZO INEN4TEIVEZZOX IN.F.CAFACITOR ZZ	C326	NEN41EM-226X	N.P.CAPACITOR	22	25V

No. Part No. Par	Symbol	B-+M-	Boot Nome	Description	
C329 NCS31H-J101X CER.CAPACITOR 100p 50V CR330 NCS31H-J101X CER.CAPACITOR 100p 50V CR331 NCS31H-J101X CER.CAPACITOR 100p 50V CR332 NCS31H-J101X CER.CAPACITOR 100p 50V CR332 NCS31H-J101X CER.CAPACITOR 100p 50V CR332 NCS31H-J101X CER.CAPACITOR 100 16V CR334 NBE41CM-106X TAN.CAPACITOR 10 16V CR335 NBE41CM-106X TAN.CAPACITOR 10 16V CR336 NBE41CM-106X TAN.CAPACITOR 10 16V CR337 NFV41H-J272X M.F. CAPACITOR 2700p 50V CR330 NFV41H-J02X M.F. CAPACITOR 2700p 50V CR330 NFV41H-J02X M.F. CAPACITOR 2700p 50V CR340 NFV41H-J02X CER.CAPACITOR 1000p 50V TAN.CAPACITOR 17 T6V TAN.CAPACITOR 180p 50V CR351 NCF311C-104X CER.CAPACITOR 10 16V CR371 TAN.CAPACITOR 10 16V		Part No.	Part Name	<u> </u>	
C329 NCS31H-J101X CER.CAPACITOR 100p 50V C331 NCS31H-J101X CER.CAPACITOR 100p 50V C331 NCS31H-J101X CER.CAPACITOR 100p 50V C332 NSE41CM-106X TAN.CAPACITOR 10 16V C334 NBE41CM-106X TAN.CAPACITOR 10 16V C335 NBE41CM-106X TAN.CAPACITOR 10 16V C336 NBE41CM-106X TAN.CAPACITOR 10 16V C336 NBE41CM-106X TAN.CAPACITOR 10 16V C337 NFV41H-J02X M.F.CAPACITOR 10 16V C337 NFV41H-J02X M.F.CAPACITOR 10 16V C338 NFV41H-J02X M.F.CAPACITOR 10 16V C339 NFV41H-J02X M.F.CAPACITOR 1000p 50V C340 NFV41H-J02X M.F.CAPACITOR 1000p 50V C340 NFV41H-J02X M.F.CAPACITOR 1000p 50V C341 NCF31CZ-104X CER.CAPACITOR 1000p 50V C341 NCF31CZ-104X CER.CAPACITOR 1000p 50V C342 NCF31CZ-104X CER.CAPACITOR 0.1 16V C343 NBE71CM-476X TAN.CAPACITOR 0.1 16V C343 NBE71CM-476X TAN.CAPACITOR 0.1 16V C343 NBE71CM-476X TAN.CAPACITOR 0.1 16V C346 NBE71CM-476X TAN.CAPACITOR 0.1 16V C347 NBE21EM-105X TAN.CAPACITOR 47 16V C347 NBE21EM-105X TAN.CAPACITOR 47 16V C347 NBE21EM-105X TAN.CAPACITOR 47 16V C348 NCS31H-J181X CER.CAPACITOR 10 125V C350 NCS31H-J181X CER.CAPACITOR 10 16V C352 NCB31H-S61X CER.CAPACITOR 10 16V C402 NCF31CZ-104X CER.CAPACITOR 0.1 16V C403 NBE61EM-205X CER.CAPACITOR 0.1 16V C404 NCF31CZ-104X CER.CAPACITOR 0.1 16V C405 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.CAPACITOR 0.1 16V C406 NCF31CZ-104X CER.C		l .			
C330 NCS31HJ-101X CER.CAPACITOR 100p 50V C331 NCS31HJ-101X CER.CAPACITOR 100p 50V C332 NSE41CM-106X CER.CAPACITOR 100 50V C334 NSE41CM-106X TAN.CAPACITOR 10 16V C335 NSE41CM-106X TAN.CAPACITOR 10 16V C336 NSE41CM-106X TAN.CAPACITOR 10 16V C337 NFV41H-102X M.F. CAPACITOR 2700p 50V C338 NFV41H-102X M.F. CAPACITOR 1000p 50V C340 NFV41H-102X M.F. CAPACITOR 1000p 50V C341 NCF31CZ-104X CER.CAPACITOR 1000p 50V C341 NCF31CZ-104X CER.CAPACITOR 1000p 50V C343 NSE71CM-476X TAN.CAPACITOR 47 16V C344 NSE71CM-476X TAN.CAPACITOR 47 16V C345 NSE21EM-105X TAN.CAPACITOR 1 25V C					
C331 NCS31H-101X CER.CAPACITOR 100p 50V					
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C336 NBE41CM-106X TAN.CAPACITOR 10	C334				
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C415 NCF31CZ-104X CER.CAPACITOR 0.1 16V C416 NCF31CZ-104X CER.CAPACITOR 0.1 16V C418 NCF31CZ-104X CER.CAPACITOR 0.1 16V C419 NCF31CZ-104X CER.CAPACITOR 0.1 16V C420 NCF31CZ-104X CER.CAPACITOR 0.1 16V C421 NBE51EM-106X TAN.CAPACITOR 0.1 16V C421 NBE51EM-106X TAN.CAPACITOR 0.47 25V C422 NBE21EM-474X TAN.CAPACITOR 0.47 25V C423 NBE51CM-336X TAN.CAPACITOR 22 16V C424 NBE51CM-336X TAN.CAPACITOR 22 16V C424 NBE51CM-476X TAN.CAPACITOR 33 16V C425 NBE71CM-476X TAN.CAPACITOR 47 16V C426 NCS31HJ-180X CER.CAPACITOR 18p 50V C428 NCF31CZ-104X CER.CAPACITOR 15p 50V C431					
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C443 NCF31CZ-104X CER.CAPACITOR 0.1 16V C444 NBE51EM-106X TAN.CAPACITOR 10 25V					
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	C444	NBE51EM-106X	TAN.CAPACITOR		
	C445	NCF31CZ-104X	CER.CAPACITOR	0.1	16V

Symbol No.	Part No.	Part Name	Description
C446	NBE61EM-226X	TAN.CAPACITOR	22 25V
	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C447			T
C448	NCF31CZ-104X	CER.CAPACITOR	1
C449	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C450	NCF31CZ-334X	CER.CAPACITOR	0.33 16V
C451	NEH91EM-106X	E.CAPACITOR	10 25V
C452	NEH91EM-106X	E.CAPACITOR	10 25V
C453	NEH91EM-106X	E.CAPACITOR	10 25V
C454	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C701	NBE21CM-475X	TAN.CAPACITOR	4.7 16V
C701	NCS31HJ-101X	CER.CAPACITOR	100p 50V
C702	NBE41EM-475X	TAN, CAPACITOR	4.7 25V
C703	NBE21EM-474X	TAN.CAPACITOR	0.47 25V
C704	NBE41CM-106X	TAN.CAPACITOR	10 16V
	NCS31HJ-101X	CER.CAPACITOR	100p 50V
C706		TAN,CAPACITOR	22 25V
C707	NBE61EM-226X	ì	
C708	NBE61EM-226X	TAN.CAPACITOR	
C709	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C710	NBE41CM-106X	TAN,CAPACITOR	10 16V
C712	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C712	NBE61EM-226X	TAN.CAPACITOR	22 25V
C716	NBE61EM-226X	TAN.CAPACITOR	22 25V
C710	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C717	NBE21EM-474X	TAN.CAPACITOR	0.47 25V
	1		4.7 6.3V
C719	NBE20JM-475X	TAN.CAPACITOR	t
C723	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
VC401	NAT3112-400RZ	TRIM.CAPACITOR	40p SUB CLOCK
VC401	NA13112-400NZ	THIW.CALACTION	40p 308 020 0K
	NOI 124 I 101 V	COIL	100uH
L1	NQL124J-101X	COIL	
L2	NQL124J-101X	COIL	100uH
L3	NQL124J-101X	COIL	100uH
L4	NQL124J-101X	COIL	100uH
L209	NQL114K-101X	COIL	100uH
L401	NQL114K-100X	COIL	10uH
L402	NQL114K-100X	COIL	10uH
L403	NQL114K-100X	COIL	10uH
L404	NQL114K-100X	COIL	10uH
L405	NQL114K-100X	COIL	10uH
LC201	PGZ01972Z	LC FILTER	
LC202	PGZ01972Z	LC FILTER	
LC203	PGZ01972Z	LC FILTER	
LC204	PGZ01972Z	LC FILTER	
X401	PGZ02200-001	CRYSTAL	4.192MHz
X402	SSV2318-001Z	CRYSTAL	32.756MHz
TH401	NAD0002-152X	THERMISTOR	1.5k
S1	QSS1 A42-L01	SLIDE SWITCH	AUD1 +4/-60 SEL
		SLIDE SWITCH	AUD2 +4/-60 SEL
S2	QSS1A42-L01		1 .
S3	QSW0457-001	SLIDE SW	AUD1 LINE/CAM
S4	SCV2730-001	SLIDE SWITCH	AUD2 LINE/CA/AU
S5	QSS4E12-S02	SLIDE SWITCH	AUD1 AUTO/MANU
S6	QSS4E12-S02	SLIDE SWITCH	AUD2 AUTO/MANU
S201	PGZ00470-02	SLIDE SWITCH	AUDIO MONITOR
S401	QSS4E12-S02	SLIDE SWITCH	REGEN/ PRESET
S402	QSS4E12-S02	SLIDE SWITCH	FREE/REC
S403	QSS4E12-S02	SLIDE SWITCH	TC DISP
S404	QSS4E12-S02	SLIDE SWITCH	LIGHT
\$404 \$405		TACT SWITCH	HOLD
	PGZ01249		
S406	PGZ01249	TACT SWITCH	SHIFT
S407	PGZ01249	TACT SWITCH	ADVANCE
S408	PGZ01249	TACT SWITCH	PRESET
S409	SCV2584-001	SLIDE SWITCH	UB/TC/CTL
S410	PGZ01249	TACT SWITCH	RESET
S411	PGZ01249	TACT SWITCH	MENU
CNI	SSV36371.00	CONNECTOR	3PIN
CN1	SSV2637-L03	CONNECTOR	SERV

- 1	Symbol Part No.		Part Name	Description			
ı	CN2	SSV2637-L03	CONNECTOR	3PIN			
١							
	CN3	SSV2637-L08	CONNECTOR	8PIN			
	CN4	PGZ01932-015Z	CONNECTOR	15PIN			
	CN5	PGZ01932-008Z	CONNECTOR	8PIN			
			l .				
	CN6	SSV2637-L02	CONNECTOR	2PIN			
1	CN7	PGZ01932-010Z	CONNECTOR	10PIN			
	CN8	SCV2596-030W	CONNECTOR	30PIN			
1	CN9	SSV2637-L10	CONNECTOR	10PIN			
1	CN401	SSV2637-L02	CONNECTOR	2PIN			
	CIVACI	33V2037-L02	COMMECTOR	21 114			
	TP	SSV1096-001	TEST POINT	TP1-TP492			
	11	3341030-001	TEST TOMY	11 1-11 402			
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Ì	DA401	QLD0010-001	LCD				
			*				
	!						
	K202	PGZ00627Z	FERRATE BEADS				
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	K204	PGZ00627Z	FERRATE BEADS				
	K205	PGZ00627Z	FERRATE BEADS				
	K206	PGZ00627Z	FERRATE BEADS				
	K207	PGZ00627Z	FERRATE BEADS				
	K401	PGZ00627Z	FERRATE BEADS				
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	K402	PGZ00627Z	FERRATE BEADS	į l			
	K403	PGZ00627Z	FERRATE BEADS	[
	K404	PGZ00627Z	FERRATE BEADS	i I			
	K405	PGZ00627Z	FERRATE BEADS	ļ l			
	1,400	1 320002/2	LI TIMALE DEMOS				
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	K406	PGZ00627Z	FERRATE BEADS				
	K407	PGZ00627Z	FERRATE BEADS				
	1						
	T201	NODOLOE OOLV	BIAC OCC COIL				
	T301	NQR0185-001X	BIAS OSC COIL				
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	ТВ	PGZ02228	EARTH LUG	TB201-TB403			
	l '-	- GEGEEZE	2	1,220,100			
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6.2 PV PROCESS BOARD ASSEMBLY PARTS LIST 0 2 SLK1069-01A(for U. Ver.)/SLK1069-B0A(for E. Ver.) 0 2

Symbol Part No.		Part Name	Description	Description		
IC1	TC4094BF-X	I,C.(M)	TOSHIBA			
IC1	TC4094BF-X	I.C.(M)	TOSHIBA			
			TEXAS			
IC3	SN74CBT3245PW-X	I.C.(M)	TEXAS			
IC5		I.C.(M)				
IC6	SN74CBT3245PW-X		TEXAS			
IC7	JCL0029	I.C.(M)	JVC			
IC8	JCL0030	I.C.(M)	JAC			
IC9	JCL0028	I.C.(M)	JVC			
IC10	SN74CBT3384PW-X	I.C.(M)	TEXAS			
IC11	SN74CBT3245PW-X	I.C.(M)	TEXAS			
1011	DIN TOBIOZIOI VIV					
IC12	S-81240PG-PJ-X	I.C.(M)	SEIKO			
	TC7S04F-X	I.C.(M)	TOSHIBA			
IC13	EPM032VT-20-001	I.C.(M)	ALTERA			
IC14			NATIONAL SEMICO			
IC15	DS26C32ATM-X	I.C.(M)	TEXAS			
IC16	SN74CBT3384PW-X	I.C.(M)				
IC17	TC4S66F-X	I.C.(M)	TOSHIBA	# D		
IC18	UPD78P58YGC-200	I.C.(M)	JVC	(U)		
1C18	UPD78P58YGC-400	I.C.(M)	JVC	(E)		
IC19	TC7W126FU-X	I.C.(M)	TOSHIBA			
IC20	S-8054HN-CB-X	I.C.(M)	SEIKO			
1020	0 00041 N-CD-X		.			
IC21	DS90C031TM-X	I.C.(M)	NATIONAL SEMICO			
			TOSHIBA			
IC22	TC74HCT541AF-X	I.C.(M)	SEIKO			
IC23	S-81240PG-PJ-X	I.C.(M)				
IC24	DS90C032TM-X	I.C.(M)	NATIONAL SEMICO			
IC25	TC4S81F-W	I.C.(M)	TOSHIBA			
IC26	DS90C032TM-X	I.C.(M)	NATIONAL SEMICO			
IC27	TC7S86F	I.C.(M)	TOSHIBA			
IC28	TC74VHC541F-X	1.C.(M)	TOSHIBA			
IC29	UPC4082G2-X	I.C.(M)	NEC			
IC30	TC528267FT-70-X	I.C.(M)	TOSHIBA			
1000	1002020711707					
IC31	SN74CBT3384PW->	dic (M)	TEXAS			
		I.C.(M)	TOSHIBA			
IC33	TC528267FT-70-X	1 ' '	TEXAS			
IC34	SN74CBT3384PW->		TOSHIBA			
IC36	TC74HCT541AF-X	I.C.(M)				
IC37	TC74HCT541AF-X	I.C.(M)	TOSHIBA			
IC41	L7A1433	I.C.(M)	LSI LOGIC			
IC42	UPD42S4260ALG5	I.C.(M)	NEC			
IC43	L7A1433	I.C.(M)	LSI LOGIC			
1C44	UPD42S4260ALG5	1.C.(M)	NEC			
IC45	MN67371F	I.C.(M)	MATSUSHITA			
			·			
IC46	S-81224PG-PX-X	1.C.(M)	SEIKO			
IC47	MN67371F	I.C.(M)	MATSUSHITA			
IC48	S-81224PG-PX-X	I.C.(M)	SEIKO			
IC49	DS90C032TM-X	I.C.(M)	NATIONAL SEMICO			
	TC74VHC244F-X	I.C.(M)	TOSHIBA			
IC51			NEC			
1C55	UPD489001	I.C.(M)	NEC			
IC56	UPD489001	I.C.(M)				
IC57	UPD489001	I.C.(M)	NEC			
1C58	UPD489001	I.C.(M)	NEC			
IC59	DS90C031TM-X	I.C.(M)	NATIONAL SEMICO			
l	Ì					
IC60	DS90C031TM-X	I.C.(M)	NATIONAL SEMICO			
IC61	TC74VHC126F-X	I.C.(M)	TOSHIBA			
IC62	TC74VHC74F-X	I.C.(M)	TOSHIBA			
IC62	DS90C032TM-X	I.C.(M)	NATIONAL SEMICO			
IC66	DS90C032TM-X	I.C.(M)	NATIONAL SEMICO			
		1.C.(M)	NEC			
IC301	UPC358G2-X		TOSHIBA			
IC302		I.C.(M)	TOSHIBA			
IC303	· ·	I.C.(M)	-			
IC304		I.C.(M)	FUJITSU			
IC351	M65401FP	I.C.(M)	MITSUBISHI			
l						
IC352	M65401FP	I.C.(M)	MITSUBISHI			
IC353		1.C.(M)	MITSUBISHI			
IC354		I.C.(M)	TOSHIBA			
IC355		I.C.(M)	TOSHIBA			
		I.C.(M)	TOSHIBA			
IC356			SEIKO			
		I.C.(M)				
IC357	TC74HCT541AF-X	I.C.(M)	TOSHIBA			
IC503			ITOSHIBA			
	TC7W04F-X	I.C.(M)	TO 01 11D 1			
IC503	TC7W04F-X	I.C.(M)	TOSHIBA			
IC503 IC504	TC7W04F-X TC74VHC244F-X		TOSHIBA TOSHIBA			
IC503 IC504 IC514	TC7W04F-X TC74VHC244F-X	I.C.(M)				
IC503 IC504 IC514	TC7W04F-X TC74VHC244F-X	I.C.(M)				
IC503 IC504 IC514	TC7W04F-X TC74VHC244F-X	I.C.(M)				

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,	Symbol No.	Part No.	Part Name	Description
	D1 D3	DAN202U-X 1SS133	DIODE DIODE	ROHM ROHM
	R11 R12 R13 R14 R15 R16 R17 R18 R19 R20	NRSA63J-472X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-108X NRSA63J-104X NRSA63J-104X NRSA63J-104X NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	4.7k 1/16W 0 1/16W 0 1/16W 0 1/16W 0 1/16W 0 1/16W 0 1/16W 10k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W
	R21 R22 R23 R25 R27 R28 R29 R30 R31 R32	NRSA63J-224X NRSA63J-102X NRSA63J-103X NRSA63J-334X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-681X NRSA63J-101X NRSA63J-0R0X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	220k 1/16W 1k 1/16W 10k 1/16W 330k 1/16W 0 1/16W 0 1/16W 680 1/16W 100 1/16W 100 1/16W 100 1/16W
	R34 R35 R36 R37 R38 R39 R40 R41 R42 R43	NRSA63J-330X NRSA63J-154X NRSA63J-154X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-101X NRSA63J-101X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	33 1/16W 150k 1/16W 150k 1/16W 0 1/16W 0 1/16W 0 1/16W 0 1/16W 100 1/16W 100 1/16W 100 1/16W 100 1/16W
	R44 R45 R46 R47 R48 R49 R50 R51 R52 R53	NRSA63J-101X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-222X NRSA63J-332X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 1/16W 100 1/16W 0 1/16W 0 1/16W 100 1/16W 100 1/16W 100 1/16W 2.2k 1/16W 3.3k 1/16W 100 1/16W
	R54 R55 R56 R57 R58 R59 R60 R61 R62 R63	NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-332X NRSA63J-222X NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 1/16W 100 1/16W 100 1/16W 100 1/16W 100 1/16W 100 1/16W 3.3k 1/16W 2.2k 1/16W 0 1/16W
	R65 R66 R67 R68 R69 R70 R71 R72 R73	NRSA63J-0R0X NRSA63J-0R0X NRSA63J-222X NRSA63J-0R0X NRSA63J-222X NRSA63J-562X NRSA63J-562X NRSA63J-0R0X NRSA63J-121X NRSA63J-121X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	0 1/16W 0 1/16W 2.2k 1/16W 0 1/16W 2.2k 1/16W 5.6k 1/16W 5.6k 1/16W 0 1/16W 120 1/16W
	R75 R76 R77 R78 R79 R80 R81 R82 R84 R85	NRSA63J-121X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-101X NRSA63J-105X NRSA63J-105X NRSA63J-102X NRSA63J-102X NRSA63J-101X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	120 1/16W 0 1/16W 0 1/16W 100 1/16W 1 1/16W 1 1/16W 1 1/16W 1 1/16W 1 1/16W 1 1/16W 1 1/16W 1 1/16W 1 1/16W 1 1/16W

R86 RSA461-01X M. G. RESSTOR 100	Symbol No.	Part No.	Part Name		Description	Symbol No.	Part No.	Part Name	T	Description
NESABAS-101X M. G. RESISTOR 100		NRSA63 L101Y	M G RESISTOR	100	1/16W	R191	NRSA63.I-0B0X	M.G.RESISTOR	0	1/16W
RISSAGL-101X M. G. RESISTOR 100 17-8W									lo	1/16W
RESIDENT NEW COLUMN RESISTOR 100									lo	1/16W
PRO										1/16W
BRID BRANCAL 271								M.G.RESISTOR	33k	1/16W
RESPONSE Michigan										1/16W
RISABASI-2211										
Paid Missaga1221X M. G. RESISTOR 220 1/16W Paid Pai						1				
RESPORT RESP						R200	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
REF										1/16W
ABSTRAIL M. G. RESISTOR 100 1769W 3203 NRSAB-333X M. G. RESISTOR 33k 1769W 3204 MISAB-3101X M. G. RESISTOR 33k 1769W 3204 MISAB-310X M. G. RESISTOR 33k 1769W 3204 MISAB-310X M. G. RESISTOR 32k 1769W 3204 MISAB-310X M. G. RESISTOR 32k 1769W 3205 MISAB-310X M. G. RESISTOR 32k 1769W 3205 MISAB-324X M. G. RESISTOR 32k 1769W 3225 MISAB-324X M. G. RESISTOR 32k 1769W 3225 MISAB-324X MISAB-324X M. G. RESISTOR 32k 1769W 32k MISAB-324X M. G. RESISTOR 32k MISAB-324X M. G. RESISTOR 32k MISAB-324X M. G. RESISTOR 32k MISAB-324X M. G. RESISTOR 32k	1 1100	THIO, LOGO EZ IA		1	.,				0	1/16W
NRSAB3-101X M. G. RESISTOR 100 176W	897	NRSA631-101X	M G RESISTOR	100	1/16W			M.G.RESISTOR	33k	1/16W
NBSAB3-1-01X M. G.RESISTOR 100 17-69V 3206 NBSAB3-333X M. G.RESISTOR 338 17-69V 17								M.G.RESISTOR	33k	1/16W
PRIOD MRSAGEL-101X M. G. RESISTOR 100 1769W								M.G.RESISTOR	33k	1/16W
PIO2 MISAGAL-101X M. G. RESISTOR 100 1/16W 220 MISAGAL-22X M. G. RESISTOR 220 1/16W R208 MISAGAL-22X M. G. RESISTOR 220 1/16W R208 MISAGAL-22X M. G. RESISTOR 220 1/16W R208 MISAGAL-22X M. G. RESISTOR 220 1/16W R208 MISAGAL-22X M. G. RESISTOR 220 1/16W R208 MISAGAL-22X M. G. RESISTOR 220 1/16W R208 MISAGAL-22X M. G. RESISTOR 220 1/16W R208 MISAGAL-22X M. G. RESISTOR 100 1/16W R208 MISAGAL-10X M. G. RESISTOR 100 1/16W R208 MISAGAL-1						R206	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
HIGH REASA-101X M. G. RESISTOR 100 1/16W 200 REASA-102X M. G. RESISTOR 100 1/16W REASA-101X M. G. RESISTOR 100 1/16W REASA-1			1			R207	NRSA63J-224X	M.G.RESISTOR	220k	1/16W
R106 RR5433-100X M.G. RESISTOR 100 17/6W R106 RR5433-10X M.G. RESISTOR 100 17/6W R106 RR5433-10X M.G. RESISTOR 100 17/6W R107 RR5433-10X M.G. RESISTOR 100 17/6W R111 RR5433-10X M.G. RESISTOR 100 17/6W R111 RR5433-10X M.G. RESISTOR 100 17/6W R111 RR5433-10X M.G. RESISTOR 100 17/6W R111 RR5433-10X M.G. RESISTOR 100 17/6W R116 RR5433-10X M.G. RESISTOR 100 17/6W R116 RR5433-10X M.G. RESISTOR 100 17/6W R116 RR5433-10X M.G. RESISTOR 100 17/6W R116 RR5433-10X M.G. RESISTOR 100 17/6W R117 RR5433-10X M.G. RESISTOR 100 17/6W R117 RR5433-10X M.G. RESISTOR 100 17/6W R117 RR5433-10X M.G. RESISTOR 100 17/6W R117 RR5433-10X M.G. RESISTOR 100 17/6W R117 RR5433-10X M.G. RESISTOR 100 17/6W R117 RR5433-10X M.G. RESISTOR 100 17/6W R117 RR5433-10X M.G. RESISTOR 100 17/6W R129 RR5433-10X M.G. RESISTOR 100 1				100	1/16W	R208	NRSA63J-224X	M.G.RESISTOR	220k	1/16W
R109 R158-33-101X M. G. RESISTOR 100 17-6W R210 R151 R158-33-101X M. G. RESISTOR 100 17-6W R211 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R212 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M. G. RESISTOR 100 17-6W R213 R158-33-101X M					1/16W	R209	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
RITH RESPORT RESISTOR 100				100	1/16W	1				
R1112 NRSAGS1-JOAX M.G. RESISTOR 100k 71/6W R215 NRSAGS1-JOIX M.G. RESISTOR 100 17/6W R216 NRSAGS1-JOIX M.G. RESISTOR 100 17/6W R216 NRSAGS1-JOIX M.G. RESISTOR 100 17/6W R217 NRSAGS1-JOIX M.G. RESISTOR 100 17/6W R217 NRSAGS1-JOIX M.G. RESISTOR 100 17/6W R217 NRSAGS1-JOIX M.G. RESISTOR 100 17/6W R218 NRSAGS1-JOIX M.G. RESISTOR 100 17/6W R219 NRSAGS1-JOIX M.G. RESISTOR 100 17/6W R219 NRSAGS1-JOIX M.G. RESISTOR 100 17/6W R219 NRSAGS1-JOIX M.G. RESISTOR 100 17/6W R229 NRSAGS1				100	1/16W	R210	NRSA63J-222X	M.G.RESISTOR	2.2k	
R112 NRSA63J-104X M. G. RESISTOR 100 17/6W	•			100k	1/16W	R211	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R116	1					R216	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R116	R112	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R217	NRSA63J-101X	M.G.RESISTOR	100	
R111		NRSA63J-221X		220	1/16W	R218	NRSA63J-101X	M.G.RESISTOR	100	
R119 NRSA63-221X M. G.RESISTOR 220 1/16W R22 NRSA63-101X M. G.RESISTOR 100 1/16W R119 NRSA63-221X M. G.RESISTOR 220 1/16W R22 NRSA63-101X M. G.RESISTOR 100 1/16W R120 NRSA63-221X M. G.RESISTOR 220 1/16W R22 NRSA63-101X M. G.RESISTOR 100 1/16W R120 NRSA63-221X M. G.RESISTOR 220 1/16W R22 NRSA63-101X M. G.RESISTOR 100 1/16W R120 NRSA63-221X M. G.RESISTOR 220 1/16W R22 NRSA63-101X M. G.RESISTOR 100 1/16W R120 NRSA63-221X M. G.RESISTOR 220 1/16W R22 NRSA63-101X M. G.RESISTOR 100 1/16W R22 NRSA63-221X M. G.RESISTOR 220 1/16W R22 NRSA63-101X M. G.RESISTOR 100 1/16W R130 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R130 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR 100 1/16W R23 NRSA63-101X M. G.RESISTOR				220	1/16W	R219	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R119 NRSA631-221X M. G. RESISTOR 220 1/16W R122 NRSA631-101X M. G. RESISTOR 100 1/16W R120 NRSA631-221X M. G. RESISTOR 220 1/16W R224 NRSA631-101X M. G. RESISTOR 100 1/16W R121 NRSA631-221X M. G. RESISTOR 220 1/16W R224 NRSA631-101X M. G. RESISTOR 100 1/16W R121 NRSA631-221X M. G. RESISTOR 220 1/16W R225 NRSA631-101X M. G. RESISTOR 100 1/16W R122 NRSA631-221X M. G. RESISTOR 220 1/16W R225 NRSA631-101X M. G. RESISTOR 100 1/16W R127 NRSA631-101X M. G. RESISTOR 100 1/16W R128 NRSA631-101X M. G. RESISTOR 100 1/16W R129 NRSA631-101X M. G. RE					1/16W	R220	NRSA63J-101X	M.G.RESISTOR	100	
R120 NRSA631-271X M.G. RESISTOR 220 1/16W R222 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-271X M.G. RESISTOR 220 1/16W R224 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-271X M.G. RESISTOR 220 1/16W R225 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-271X M.G. RESISTOR 220 1/16W R226 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-271X M.G. RESISTOR 220 1/16W R227 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-101X M.G. RESISTOR 100 1/16W R121 NRSA631-101X M.G. RESISTOR 100 1/16W R123 NRSA631-101X M.G. RESISTOR 100 1/16W R123 NRSA631-101X M.G. RESISTOR 100 1/16W R123 NRSA631-101X M.G. RESISTOR 100 1/16W R123 NRSA631-101X M.G. RESISTOR 100 1/16W R123 NRSA631-101X M.G. RESISTOR 100 1/16W R123 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-101X M.G. RESISTOR 100 1/16W R124 NRSA631-1					1/16W	R221	NRSA63J-101X	M.G.RESISTOR	100	
R120 NRSA631-221X M. G. RESISTOR 220 1/16W R224 NRSA631-101X M. G. RESISTOR 100 1/16W R225 NRSA631-221X M. G. RESISTOR 220 1/16W R226 NRSA631-21X M. G. RESISTOR 220 1/16W R226 NRSA631-101X M. G. RESISTOR 100 1/16W R226 NRSA631-221X M. G. RESISTOR 220 1/16W R227 NRSA631-101X M. G. RESISTOR 100 1/16W R228 NRSA631-101X M. G. RESISTOR 100 1/16W R228 NRSA631-101X M. G. RESISTOR 100 1/16W R228 NRSA631-101X M. G. RESISTOR 100 1/16W R228 NRSA631-101X M. G. RESISTOR 100 1/16W R228 NRSA631-101X M. G. RESISTOR 100 1/16W R228 NRSA631-101X M. G. RESISTOR 100 1/16W R228 NRSA631-101X M. G. RESISTOR 100 1/16W R228 NRSA631-101X M. G. RESISTOR 100 1/16W R228 NRSA631-101X M. G. RESISTOR 100 1/16W R228 NRSA631-101X M. G. RESISTOR 100 1/16W R228 NRSA631-101X M. G. RESISTOR 100 1/16W R238 NRSA631-101X M. G. RES					1/16W	R222	NRSA63J-101X	M.G.RESISTOR	100	
R122 NRSA63J-21X M.G. RESISTOR 220 1/16W R225 NRSA63J-101X M.G. RESISTOR 100 1/16W R126 NRSA63J-21X M.G. RESISTOR 220 1/16W R226 NRSA63J-101X M.G. RESISTOR 100 1/16W R126 NRSA63J-101					1/16W	R224	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R122 NRSA63J-221X M. G. RESISTOR 220 17/6W R225 NRSA63J-101X M. G. RESISTOR 100 17/6W R226 NRSA63J-101X M. G. RESISTOR 100 17/6W R226 NRSA63J-101X M. G. RESISTOR 100 17/6W R226 NRSA63J-101X M. G. RESISTOR 100 17/6W R227 NRSA63J-101X M. G. RESISTOR 100 17/6W R228 NRSA63J-101X M. G. RESISTOR 100 17/6W R228 NRSA63J-101X M. G. RESISTOR 100 17/6W R229 NRSA63J-101X M. G. RE					1/16W	1				
R124 NRSA63J-21X M.G. RESISTOR 220 1/16W R225 NRSA63J-101X M.G. RESISTOR 100 1/16W R226 NRSA63J-101X M.G. RESISTOR 100 1/16W R126 NRSA63J-101X M.G. RESISTOR 100 1/16W R126 NRSA63J-101X M.G. RESISTOR 100 1/16W R127 NRSA63J-101X M.G. RESISTOR 100 1/16W R128 NRSA63J-10				220	1/16W	R225	NRSA63J-101X	M.G.RESISTOR		
R124 NRSA631-211X M.G.RESISTOR 220 17/16W R228 NRSA631-101X M.G.RESISTOR 100 17/16W R229 NRSA631-101X M.G.RESISTOR 100 17/16W R229 NRSA631-101X M.G.RESISTOR 100 17/16W R230 NRSA631-101X M.G.RESISTOR 100 17/16W R231 NRSA631-101X M.G.RESISTOR 100 17/16W R231 NRSA631-101X M.G.RESISTOR 100 17/16W R231 NRSA631-101X M.G.RESISTOR 100 17/16W R232 NRSA631-101X M.G.RESISTOR 100 17/16W R232 NRSA631-101X M.G.RESISTOR 100 17/16W R232 NRSA631-101X M.G.RESISTOR 100 17/16W R234 NRSA631-101X M.G.RESISTOR 100 17/16W R235 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R236 NRSA631-101X M.G.RESISTOR 100 17/16W R237 NRSA631-101X M.G.RESISTOR 100 17/16W R238 NRSA631-101X M.G.RESISTOR 100 17/16W R238 NRSA631-101X M.G.RESISTOR 100 17/16W R238 NRSA631-101X M.G.RESISTOR 100 17/16W R238 NRSA631-101X M.G.RESISTOR 100 17/16W R238 NRSA631-101X M.G.RESISTOR 100 17/16W R238 NRSA631-101X M.G.RESISTOR 100 17/16W R238 NRSA631-101X M.G.RESISTOR 100 17/16W R238 NRSA631-101X M.G.RESISTOR 100 17/16W R238 NRSA631-101X M.G.RESISTOR 100 17/16W R238 NRSA631-101X M.G.RESISTOR 100 17/16W NRSA631-101X M.G.RESISTOR 100 17/16W NRSA631-101X M.G.RESISTOR 100 17/16W NRSA631-101X M.G.RESISTOR					1/16W	R226	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R126				İ		R227	NRSA63J-101X	M.G.RESISTOR		
R126	R124	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R228	NRSA63J-101X	M.G.RESISTOR		
R122 NRSA63J-102X M.G. RESISTOR 10 1/16W R132 NRSA63J-101X M.G. RESISTOR 10 1/16W R133 NRSA63J-101X M.G. RESISTOR 10 1/16W R133 NRSA63J-101X M.G. RESISTOR 10 1/16W R135 NRSA63J-101X M.G. RESISTOR 10 1/16W R136 NRSA63J-101X M.G. RESISTOR 10 1/16W R136 NRSA63J-101X M.G. RESISTOR 100 1/16W NRSA63J-101X M.G. RESISTOR 100 1/16W NRSA63J-101X M.G. RESISTOR 100 1/16W NRSA63J-101X M.G. RESISTOR 100 1/16W NRSA63J-101X M.G. RESISTOR 100 1/16W NRSA63J-101X M.G. RESISTOR 100 1/16W NRSA63J-101X M.G. RESISTOR 100 1/16W NRSA63J-101X M.G. RESISTOR 100 1/16W NRSA63J-101X M.G. RESISTOR 100 1/16W NRSA63J-101X M.G. RESISTOR 100 1/16W NRSA63J-101X M.G. RESISTOR 100 1/16W NRSA63J-101X M.G. RESISTOR 100 1/16W NRSA63J-101X M.G. RESISTOR 100 1/16W NR				220	1/16W	R229	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R132 NRSA63-JORX M.G. RESISTOR 0 1/16W R235 NRSA63-JOX M.G. RESISTOR 100 1/16W R235 NRSA63-JOX M.G. RESISTOR 100 1/16W R236 NRSA63-JOX M.G. RESISTOR 100 1/1			M.G.RESISTOR	1k	1/16W	R230	NRSA63J-101X	M.G.RESISTOR		
First Firs				0	1/16W	R231	NRSA63J-103X	M.G.RESISTOR		
R135 NRSA63-101X M.G. RESISTOR 100 1/16W R233 NRSA63-101X M.G. RESISTOR 100 1/16W R137 NRSA63-101X M.G. RESISTOR 100 1/16W R235 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R238 NRSA63-101X M.G. RESISTOR 100 1/16W R238 NRSA63-101X M.G. RESISTOR 100 1/16W R238 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R236 NRSA63-101X M.G. RESISTOR 100 1/16W R237 NRSA63-101X M.G. RESISTOR 100 1/16W R237 NRSA63-101X M.G. RESISTOR 100 1/16W R237 NRSA63-101X M.G. RESISTOR 100 1/16W R237 NRSA63-101X M.G. RESISTOR 100 1/16W R237 NRSA63-101X M.G. RESISTOR 100 1/16W R237 NRSA63-101X M.G. RESISTOR 100 1/16W R238 NRSA63-101X M.G. RESISTOR 100 1/16W R238 NRSA63-101X M.G. RESISTOR 100 1/16W R238 NRSA63-101X M.G. RESISTOR 100 1/16W R238 NRSA63-101X M.G. RESISTOR 100 1/16W R239 NRSA63-101X M.G. RESISTOR 100 1/16W R239 NRSA63-101X M.G. RESISTOR 100 1/16W R239 NRSA63-101X M.G. RESISTOR 100 1/16W R239 NRSA63-101X M.G. RESISTOR 100 1/16W R239 NRSA63-101X M.G. RESISTOR 100 1/16W R239 NRSA63-101X M.G. RESISTOR 100 1/16W R239 NRSA63-101X M.G. RESISTOR 100 1/16W R239 NRSA63-101X M.G. RESISTOR 100 1/16W R239 NRSA63-101X M.G. RESISTOR 100 1/16W NRSA			M.G.RESISTOR	0	1/16W	R232	NRSA63J-101X	M.G.RESISTOR		
R137 NISA63J-101X M.G.RESISTOR 100 1/16W R236 NISA63J-101X M.G.RESISTOR 100 1/16W R236 NISA63J-101X M.G.RESISTOR 100 1/16W R236 NISA63J-101X M.G.RESISTOR 100 1/16W R237 NISA63J-101X M.G.RESISTOR 100 1/16W R238 NISA63J-101X M.G.RESISTOR 100 1/16W R238 NISA63J-101X M.G.RESISTOR 100 1/16W R238 NISA63J-101X M.G.RESISTOR 100 1/16W R238 NISA63J-101X M.G.RESISTOR 100 1/16W R238 NISA63J-101X M.G.RESISTOR 100 1/16W R238 NISA63J-101X M.G.RESISTOR 100 1/16W R238 NISA63J-101X M.G.RESISTOR 100 1/16W R239 NISA63J-101X M.G.RESISTOR 100 1/16W R239 NISA63J-101X M.G.RESISTOR 100 1/16W R240 NISA63J-101X M.G.RESISTOR 100 1/16W R240 NISA63J-101X M.G.RESISTOR 100 1/16W R241 NISA63J-101X M.G.RESISTOR 100 1/16W R241 NISA63J-101X M.G.RESISTOR 100 1/16W R241 NISA63J-101X M.G.RESISTOR 100 1/16W R241 NISA63J-101X M.G.RESISTOR 100 1/16W R241 NISA63J-101X M.G.RESISTOR 100 1/16W R241 NISA63J-101X M.G.RESISTOR 100 1/16W R241 NISA63J-101X M.G.RESISTOR 100 1/16W R241 NISA63J-101X M.G.RESISTOR 100 1/16W R242 NISA63J-101X M.G.RESISTOR 100 1/16W R244 NISA63J-101X M.G.RESISTOR 100 1/16W R245 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246 NISA63J-101X M.G.RESISTOR 100 1/16W R246			M.G.RESISTOR	100	1/16W	R233	NRSA63J-101X	M.G.RESISTOR		
R137 NRSA63J-101X M.G.RESISTOR 100 1/16W R138 NRSA63J-101X M.G.RESISTOR 100 1/16W R236			M.G.RESISTOR	100k	1/16W	R234	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R138 NRSA63J-101X M.G.RESISTOR 100 1/16W R236 NRSA63J-101X M.G.RESISTOR 100 1/16W R236 NRSA63J-101X M.G.RESISTOR 100 1/16W R236 NRSA63J-101X M.G.RESISTOR 100 1/16W R236 NRSA63J-101X M.G.RESISTOR 100 1/16W R236 NRSA63J-101X M.G.RESISTOR 100 1/16W R238 NRSA63J-101X M.G.RESISTOR 100 1/16W R238 NRSA63J-101X M.G.RESISTOR 100 1/16W R238 NRSA63J-101X M.G.RESISTOR 100 1/16W R238 NRSA63J-101X M.G.RESISTOR 100 1/16W R240 NRSA63J-101X M.G.RESISTOR 100 1/16W R240 NRSA63J-101X M.G.RESISTOR 100 1/16W R240 NRSA63J-101X M.G.RESISTOR 100 1/16W R241 NRSA63J-101X M.G.RESISTOR 100 1/16W R242 NRSA63J-101X M.G.RESISTOR 100 1/16W R243 NRSA63J-101X M.G.RESISTOR 100 1/16W R244 NRSA63J-101X M.G.RESISTOR 100 1/16W R244 NRSA63J-101X M.G.RESISTOR 100 1/16W R246 NRSA63J-101X M.G.RESISTOR 100 1/16W R246 NRSA63J-101X M.G.RESISTOR 100 1/16W R247 NRSA63J-101X M.G.RESISTOR 100 1/16W R247 NRSA63J-101X M.G.RESISTOR 100 1/16W R248 NRSA63J-101X M.G.RESISTOR 100 1/16W R249 NRSA63J-101X M.G.RESISTOR 100 1/16W R249 NRSA63J-101X M.G.RESISTOR 100 1/16W R249 NRSA63J-101X M.G.RESISTOR 100 1/16W R249 NRSA63J-101X M.G.RESISTOR 100 1/16W R249 NRSA63J-101X M.G.RESISTOR 100 1/16W R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R250	R137	NRSA63J-101X	M.G.RESISTOR	100	1/16W	1				
R140	R138	NRSA63J-101X	M.G.RESISTOR	100	1/16W					
R140	R139	NRSA63J-101X	M.G.RESISTOR	100	1/16W					
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R160	R157					R255	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R161 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R277 NRSA63J-0R0X M.G.RESISTOR 100 1/16W R277 NRSA63J-101X M.G.RESISTOR 100 1/16W R278 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R280 NRSA63J-101X M.G.RESISTOR 100 1/16W R280 NRSA63J-101X M.G.RESISTOR 100 1/16W R280 NRSA63J-101X M.G.RESISTOR 100 1/16W R281 NRSA63J-101X M.G.RESISTOR 100 1/16W R281 NRSA63J-101X M.G.RESISTOR 100 1/16W R282 NRSA63J-101X M.G.RESISTOR 100 1/16W R283 NRSA63J-101X M.G.RESISTOR 100 1/16W R283 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA63J-101X N.G.RESISTOR 1/16W NRSA	R158	NRSA63J-101X	M.G.RESISTOR	1		- 1	1			
R162 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R278 NRSA63J-101X M.G.RESISTOR 100 1/16W R278 NRSA63J-101X M.G.RESISTOR 100 1/16W R278 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 1/16W NRSA63J-101X M.G.RESISTOR 1/16W NRSA63J-10RX M.G.RESISTOR 1/16W	R160	NRSA63J-101X		1						
R163 NRSA63J-104X M.G.RESISTOR 100k 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R164 NRSA63J-104X M.G.RESISTOR 100k 1/16W R280 NRSA63J-101X M.G.RESISTOR 100 1/16W R165 NRSA63J-080X M.G.RESISTOR 0 1/16W R281 NRSA63J-101X M.G.RESISTOR 100 1/16W R281 NRSA63J-101X M.G.RESISTOR 100 1/16W R281 NRSA63J-101X M.G.RESISTOR 100 1/16W R282 NRSA63J-101X M.G.RESISTOR 100 1/16W R283 NRSA63J-101X M.G.RESISTOR 100 1/16W R283 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R285 NRSA63J-101X M.G.RESISTOR 100 1/16W R286 NRSA63J-101X M.G.RESISTOR 1/16W R286 NRSA63J-101X M.G.RESISTOR 1/16W R286 NRSA63J-101X M.G.RESISTOR 1/16W R286 NRSA63J-101X M.G.RESISTOR 1/16W R286 NRSA63J-101X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/16W R286 NRSA63J-100X M.G.RESISTOR 1/1	R161	NRSA63J-0R0X	M.G.RESISTOR					ř		
R163 NRSA63J-104X M.G.RESISTOR 100k 1/16W R279 NRSA63J-101X M.G.RESISTOR 100 1/16W R164 NRSA63J-104X M.G.RESISTOR 100k 1/16W R280 NRSA63J-101X M.G.RESISTOR 100 1/16W R281 NRSA63J-101X M.G.RESISTOR 100 1/16W R281 NRSA63J-101X M.G.RESISTOR 100 1/16W R281 NRSA63J-101X M.G.RESISTOR 100 1/16W R282 NRSA63J-101X M.G.RESISTOR 100 1/16W R283 NRSA63J-101X M.G.RESISTOR 100 1/16W R283 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R2	R162	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W					
R164 NRSA63J-104X M.G.RESISTOR 100k 1/16W R280 NRSA63J-101X M.G.RESISTOR 100 1/16W R165 NRSA63J-0R0X M.G.RESISTOR 220 1/16W R281 NRSA63J-101X M.G.RESISTOR 100 1/16W R281 NRSA63J-101X M.G.RESISTOR 100 1/16W R282 NRSA63J-101X M.G.RESISTOR 100 1/16W R283 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R28	1	İ								
R165 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R281 NRSA63J-101X M.G.RESISTOR 100 1/16W R166 NRSA63J-221X M.G.RESISTOR 220 1/16W R282 NRSA63J-101X M.G.RESISTOR 100 1/16W R283 NRSA63J-101X M.G.RESISTOR 100 1/16W R283 NRSA63J-101X M.G.RESISTOR 100 1/16W R283 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X NRSA63J-101X M.G.RESISTOR 100 1/16W NRSA63J-101X NRSA63J	R163								+	
R166 NRSA63J-221X M.G.RESISTOR 220 1/16W R282 NRSA63J-101X M.G.RESISTOR 100 1/16W R167 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R283 NRSA63J-101X M.G.RESISTOR 100 1/16W R169 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R181 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R182 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R287 NRSA63J-562X M.G.RESISTOR 5.6k 1/16W R183 NRSA63J-31-331X M.G.RESISTOR 330 1/16W R288 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R184 NRSA63J-472X M.G.RESISTOR 4.7k 1/16W R289 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R186 NRSA63J-562X M.G.RESISTOR 5.6k 1/16W R295										
R167 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R283 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R285 NRSA63J-101X M.G.RESISTOR 1/16W R285 NRSA63J-101		NRSA63J-0R0X								
R169 NRSA63J-101X M.G.RESISTOR 100 1/16W R284 NRSA63J-101X M.G.RESISTOR 100 1/16W R181 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R287 NRSA63J-62X M.G.RESISTOR 0 1/16W R287 NRSA63J-62X M.G.RESISTOR 0 1/16W R287 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R288 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R289 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R290 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R295 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R296 NRSA63J-0R0X M.G.RESISTO		NRSA63J-221X								
R181 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R287 NRSA63J-562X M.G.RESISTOR 0 1/16W R287 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R288 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R288 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R289 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R289 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R290 NRSA63J-0R0X M.G.RESISTOR				1 -						
R182 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R287 NRSA63J-562X M.G.RESISTOR 5.6k 1/16W R183 NRSA63J-331X M.G.RESISTOR 330 1/16W R289 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R184 NRSA63J-472X M.G.RESISTOR 4.7k 1/16W R289 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R186 NRSA63J-562X M.G.RESISTOR 5.6k 1/16W R289 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R189 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R298 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R189 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R298 NRSA63J-0R0X M.G.RESISTOR 0 1/16W				1		R284	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R183 NRSA63J-331X M.G.RESISTOR 330 1/16W R288 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R184 NRSA63J-472X M.G.RESISTOR 4.7k 1/16W R289 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R186 NRSA63J-562X M.G.RESISTOR 5.6k 1/16W R295 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R189 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R298 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R189 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R298 NRSA63J-0R0X M.G.RESISTOR 0 1/16W				1.						
R184 NRSA63J-472X M.G.RESISTOR 4.7k 1/16W R289 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R186 NRSA63J-562X M.G.RESISTOR 5.6k 1/16W R295 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R189 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R298 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R189 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R298 NRSA63J-0R0X M.G.RESISTOR 0 1/16W							1			
R186 NRSA63J-562X M.G.RESISTOR 5.6k 1/16W R295 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R189 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R298 NRSA63J-0R				ı						
R186 NRSA63J-562X M.G.RESISTOR 5.6k 1/16W R295 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R189 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R298 NRSA63J-0R0X M.G.RESISTOR 0 1/16W	R184	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W					
R189 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R298 NRSA63J-0R0X M.G.RESISTOR 0 1/16W	1	1	1	_						
14107000 0107				4						
R190 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R299 NRSA63J-0R0X M.G.RESISTOR 0 1/16W										
	R190	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R299	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W

Symbol No.	Part No.	Part Name	Descript	ion
R301 R302 R303	NRSA63J-102X NRSA63J-821X NRSA63J-332X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	820	1/16W 1/16W 1/16W
R304 R305 R306 R307 R308 R309 R310 R311 R316 R322	NRSA63J-154X NRSA63J-102X NRSA63J-102X NRSA63J-563X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-101X NRSA63J-101X NRSA63J-103X NRSA63J-221X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1k 1k 56k 120k 1k 100 10k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R351 R352 R353 R354 R355 R356 R357 R358 R359 R360	NRSA63J-103X NRSA63J-103X NRSA63J-222X NRSA63J-272X NRSA63J-561X NRSA63J-391X NRSA63J-823X NRSA63J-392X NRSA63J-333X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R361 R387 R388 R389 R390 R391 R392 R393 R394 R395	NRSA63J-103X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 10k 100 100 100 100 100 0 0	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R401 R403 R404 R408 R409 R410 R411 R412 R508 R509	NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-104X NRSA63J-104X NRSA63J-105X NRSA63J-105X NRSA63J-472X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	0 0 0 0 0 0 100k 0 1M 4.7k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R511 R512 R515 R516	NRSA63J-102X NRSA63J-101X NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1k 100 0	1/16W 1/16W 1/16W 1/16W
C1 C2 C3 C4 C5 C6 C7 C8 C9	NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31EK-223X NCB31EK-223X NCB31EK-223X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.02	50V 50V 50V 50V 50V 50V 50V 25V 25V 50V
C11 C13 C14 C15 C16 C17 C18 C19 C20	NCB31HK-103X NEH71AM-227X NEH71AM-227X NBE21AM-106X NCF21CZ-105X NDC31HJ-7R0X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X	CER.CAPACITOR E.CAPACITOR E.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 220 220 10 1 7p 0.01 0.01 0.01 0.01	50V 10V 10V 10V 16V 50V 50V 50V 50V 50V
C22 C23 C24 C25	NBH21CM-105X NCB31HK-103X NCB31HK-103X NCB31EK-223X	TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	1 0.01 0.01 0.022	16V 50V 50V 25V

Symbol No.	Part No.	Part Name	Description
C26	NDC31HJ-470X	CER.CAPACITOR	47p 50V
C27	NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01 50V 1 16V
C28 C29	NCF21CZ-105X NCB31HK-103X	CER.CAPACITOR	0.01 50V
C30	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C31	NDC31HJ-120X	CER.CAPACITOR	12p 50V
C41	NCB31EK-223X	CER.CAPACITOR CER.CAPACITOR	0.022 25V 0.022 25V
C42 C43	NCB31EK-223X NCB31EK-223X	CER.CAPACITOR	0.022 25V
C46	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C49	NCB31HK-103X	CER.CAPACITOR	0.01 50V 10.01 50V
C50 C51	NCB31HK-103X NCB31EK-223X	CER.CAPACITOR	0.01 50V 0.022 25V
C52	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C53	NCF21CZ-105X	CER.CAPACITOR	1 16V
C54	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C55	NCB31HK-103X	CER.CAPACITOR	0.01 50V 10 10V
C56 C59	NBE21AM-106X NCB31EK-223X	TAN.CAPACITOR CER.CAPACITOR	0.022 25V
C63	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C65	NCB31EK-223X	CER.CAPACITOR	0.022 25V 0.022 25V
C66 C67	NCB31EK-223X NCB31EK-223X	CER.CAPACITOR CER.CAPACITOR	0.022 25V 0.022 25V
C68	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C69	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C70	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C71	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C72	NCB31EK-223X	CER.CAPACITOR CER.CAPACITOR	0.022 25V 0.022 25V
C73 C74	NCB31EK-223X NCB31EK-223X	CER.CAPACITOR	0.022 25V
C75	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C76	NCB31EK-223X	CER.CAPACITOR	0.022 25V 0.022 25V
C77 C82	NCB31EK-223X NCB31EK-223X	CER.CAPACITOR CER.CAPACITOR	0.022 25V 0.022 25V
C83	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C84	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C85	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C86	NCB31EK-223X	CER.CAPACITOR CER.CAPACITOR	0.022 25V 0.022 25V
C87 C88	NCB31EK-223X NCB31EK-223X	CER.CAPACITOR	0.022 25V 0.022 25V
C89	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C90	NCB31EK-223X	CER.CAPACITOR	0.022 25V 0.022 25V
C91 C92	NCB31EK-223X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.022 25V 0.01 50V
C93	NCF21CZ-105X	CER.CAPACITOR	1 16V
C94	NBE40JM-106X	TAN.CAPACITOR	10 6.3V
C95	NCB31HK-103X	CER.CAPACITOR	0.01 50V 0.022 25V
C96	NCB31EK-223X NCB31EK-223X	CER.CAPACITOR CER.CAPACITOR	0.022 25V
C98	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C99	NCF21CZ-105X	CER.CAPACITOR	1 16V
C100	NBE40JM-106X NCB31HK-103X	TAN.CAPACITOR	10 6.3V 0.01 50V
C101 C105	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C109	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C112	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C113 C114	NCB31EK-223X NCB31EK-223X	CER.CAPACITOR CER.CAPACITOR	0.022 25V 0.022 25V
C114	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C116	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C117	NCB31EK-223X	CER.CAPACITOR	0.022 25V 0.022 25V
C118	NCB31EK-223X NCB31EK-223X	CER.CAPACITOR CER.CAPACITOR	0.022 25V 0.022 25V
C120	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C121 C122	NCF21CZ-105X NCB31EK-223X	CER.CAPACITOR CER.CAPACITOR	1 16V 0.022 25V
C123	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C123	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C133	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C301	NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.01 50V
C302 C303	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR	0.01 50V
C304	NCB31HK-103X	CER.CAPACITOR	0.01 50V
		-d	

Symbol No.	Part No.	Part Name	Description
C305	NCF21CZ-105X	CER.CAPACITOR	1 16V
C305	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C307	NCB31HK-103X	CER.CAPACITOR	0.01 50V
0007	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
C308	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C309	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C310	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C311	NCF21CZ-105X	CER.CAPACITOR	1 16V 1 16V
C312	NCF21CZ-105X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	1 16V 0.01 50V
C313 C314	NCF21CZ-105X	CER.CAPACITOR	1 16V
C314	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C352	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C353	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C354	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C355	NCB31HK-103X	CER.CAPACITOR	0.01 50V 0.01 50V
C356	NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01 50V 0.01 50V
C357 C358	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR	0.01 50V
C359	NBH21CM-105X	TAN CAPACITOR	1 16V
C360	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C361	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C362	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C364	NBE40JM-106X	TAN.CAPACITOR	10 6.3V
0005	NDC04111400V	CER CARACITOR	18p 50V
C365	NDC31HJ-180X	CER.CAPACITOR	18p 50V 6800p 50V
C366 C367	NCB31HK-682X NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C368	NBH41CM-225X	TAN.CAPACITOR	2.2 16V
C369	NBH41CM-225X	TAN.CAPACITOR	2.2 16V
C370	NBE40JM-106X	TAN.CAPACITOR	10 6.3V
C371	NBE40JM-106X	TAN.CAPACITOR	10 6.3V
C372	NCF21CZ-105X	CER.CAPACITOR	1 16V
C373	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C374	NDC31HJ-180X	CER:CAPACITOR	18p 50V
C375	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C376	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C377	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C378	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C379	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C380	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C381	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01 50V 0.01 50V
C382 C386	NBE40JM-106X	TAN.CAPACITOR	10 6.3V
C387	NCF21CZ-105X	CER.CAPACITOR	1 16V
0007	110.21021001		
C388	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C389	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C390	NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01 50V 0.01 50V
C391	NCB31HK-103X	CER.CAPACITOR	1 16V
C392 C393	NCF21CZ-105X NCF21CZ-105X	CER.CAPACITOR	1 16V
C429	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C461	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C501	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C504	NCB31HK-103X	CER.CAPACITOR	0.01 50V
CEDE	NICESTILL 100V	CER.CAPACITOR	0.01 50V
C505 C510	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR	0.01 50V
C511	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C512	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C513	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C516	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C517	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C520	NCB31HK-103X	CER.CAPACITOR	0.01 50V 27p 50V
C521 C522	NDC31HJ-270X NDC31HJ-270X	CER.CAPACITOR CER.CAPACITOR	27p 50V 27p 50V
0022	14000100-2700	JEII.OAI ACITOR	
	1		1
L1	NQL024J-1R2X	COIL	1.2uH
L2 L3	NQL114K-101X	COIL	100uH 100uH
L3 L4	NQL114K-101X NQL024J-1R2X	COIL	1.2uH
L301	NQL0245-1R2X NQL114K-101X	COIL	100uH
L302	NQL114K-220X	COIL	22uH
L351	NQL114K-101X	COIL	100uH
L352	NQL114K-101X	COIL	100uH
LC1	PGZ01972Z	LC FILTER	

Symbol No.	Part No.	Part Name	Description
LC2 LC3 LC4 LC5 LC7 LC10 LC11 LC12 LC301	PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z	LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER	
LC351 LC352	SSV3036-12R3Y PGZ01972Z	LC FILTER LC FILTER	12.3MHz
X1 X301 X500	PGZ02143 SDV0026 QAX0328-001X	CRYSTAL CRYSTAL CRYSTAL	49.5MHz 24.576MHz 4.9152MHz
TH1	NAD0001-103X	THERMISTOR	10k
CN1 CN2 CN4 CN6 CN9 CN10 CN12	PGZ01932-020Z PGZ01932-024Z PGZ01932-022Z SCV2596-028W QGB1211M1-80S PGZ01932-022Z PGZ01932-015Z	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR	20PIN 24PIN 22PIN 28PIN 80PIN 22PIN 15PIN
TP	SSV1096-001	TEST POINT	TP1-TP355
TB	NNZ0006-001X	EARTH TERMINAL	TB1-TB6

6.3 I/O SSG BOARD ASSEMBLY PARTS LIST 03 SLK1070-00B 03

OLI	1070-00B		
Symbol No.	Part No.	Part Name	Description
IC1 IC4 IC5 IC6 IC7 IC8 IC9 IC10 IC11 IC12	RL5C292-001 TC74ACT541F-X EPM064-15-003 TC74LCX244F-X DS90C032TM-X DS90C032TM-X MC14577CF-X JCL0024 MM74HC4046M-X TC4W53F-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	RICHO TOSHIBA ALTERA TOSHIBA NATIONAL SEMICO NATIONAL SEMICO MOTOROLA JVC NATIONAL SEMICO TOSHIBA
IC304 IC307 IC308 IC310 IC312 IC315 IC316 IC317 IC321	TK16031AMTL UPC4082G2-X LM6361M-X TC4W53F-X TK16031AMTL UPC4082G2-X LM6361M-X TC4W53F-X UPC4082G2-X LM6361M-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	TOKO DENSHI NEC TEXAS TOSHIBA TOKO DENSHI NEC TEXAS TOSHIBA NEC TEXAS TOSHIBA NEC TEXAS
IC323 IC328 IC329 IC330 IC601 IC602 IC603 IC604 IC605 IC606	TC74VHC221AF-X UPC78L05T-X CXD1175AM-X UPC78L05T-X CXD1175AM-X UPC78L05T-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	TOSHIBA ELANTEC TOSHIBA TOSHIBA NEC SONY NEC SONY NEC SONY
IC607 IC612 IC613 IC614 IC617 IC618 IC619 IC620 IC622	DS90C031TM-X DS90C031TM-X TC74ACT541F-X DS90C031TM-X AN77L03M-X TC74VHC541F-X UPC2384GA UPC78L05T-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	JVC NATIONAL SEMICO NATIONAL SEMICO TOSHIBA NATIONAL SEMICO MATSUSHITA TOSHIBA NEC NEC NEC
1C625	TC74VHC221AF-X	I.C.(M)	TOSHIBA
Q1 Q2 Q3 Q5 Q6 Q7 Q8 Q9 Q10 Q11	2SC4081/QR/-X 2SA1576A/QRS/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM
Q12 Q13 Q301 Q302 Q304 Q305 Q306 Q307 Q308	2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM
Q310 Q312 Q313 Q314 Q315 Q316 Q317 Q318 Q318 Q319 Q320	2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SA1576A/QRS/-X 2SC4081/QR/-X 2SA1576A/QRS/-X 2SA1576A/QRS/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM

١	Symbol No.	Part No.	Part Name	Description
	Q321 Q322 Q323 Q325 Q326 Q327	2SC4081/QR/-X 2SA1576A/QRS/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM ROHM
	D1 D2 D3 D4 D5 D303 D601 D602 D603 D604	DAN202U-X DAN202U-X DAN202U-X DAN202U-X DAN202U-X DAP202K-X DAP202K-X DAN202K-X DAP202K-X DAP202K-X DAN202K-X	DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM
	D605 D606 D607 D608	DAP202K-X DAN202K-X DA204U-X DA204U-X	DIODE DIODE DIODE DIODE	ROHM ROHM ROHM ROHM
	R1 R2 R3 R4 R5 R6 R7 R8 R9	NRSA63J-331X NRSA63J-101X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-470X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	330 1/16W 100 1/16W 47 1/16W 47 1/16W 47 1/16W 47 1/16W 47 1/16W 47 1/16W 47 1/16W 47 1/16W 47 1/16W
	R11 R12 R13 R14 R15 R16 R17 R18 R19	NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-104X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	47 1/16W 47 1/16W 47 1/16W 100k 1/16W 100 1/16W 100 1/16W 100 1/16W 100 1/16W 100 1/16W 100 1/16W 100 1/16W
	R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	NRSA63J-101X NRSA63J-470X NRSA63J-470X NRSA63J-221X NRSA63J-331X NRSA63J-331X NRSA63J-221X NRSA63J-70X NRSA63J-182X NRSA63J-561X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 1/16W 47 1/16W 47 1/16W 220 1/16W 330 1/16W 330 1/16W 220 1/16W 47 1/16W 1.8k 1/16W 560 1/16W
	R32 R33 R34 R35 R36 R37 R38 R39 R41 R42	NRSA63J-470X NRSA63J-0R0X NRSA63J-560X NRSA63J-750X NRSA63J-101X NRSA63J-101X NRSA63J-222X NRSA63J-561X NRSA63J-0R0X NRSA63J-222X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	47 1/16W 0 1/16W 56 1/16W 75 1/16W 1k 1/16W 100 1/16W 2.2k 1/16W 560 1/16W 0 1/16W 2.2k 1/16W
	R43 R44 R45 R46 R47 R48 R49 R50 R51 R53	NRSA63J-102X NRSA63J-102X NRSA63J-221X NRSA63J-0R0X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1k 1/16W 1k 1/16W 220 1/16W 0 1/16W 100k 1/16W 100 1/16W 100 1/16W 47 1/16W 47 1/16W 0 1/16W

Symbol No.	Part No.	Part Name	De	escription	Symbol No.	Part
R54	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R142	NRSA63J-
R55	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R143	NRSA63J-
R58	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R145	NRSA63J
R59	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R148	NRSA63J-
R60	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R150	NRSA63J-
R61	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R151	NRSA63J-
R62	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R153	NRSA63J-
R63	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W		
R64	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R154	NRSA63J-
R65	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R155	NRSA63J-
				į	R156	NRSA63J-
R66	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R157	NRSA63J
R68	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R158	NRSA63J-
R69	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R159	NRSA63J-
R71	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R160	NRSA63J-
R74	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R161	NRSA63J-
R75	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R162	NRSA63J
R76	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R163	NRSA63J-
R77	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W		
R78	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R164	NRSA63J
R79	NRSA63J-102X	M.G.RESISTOR	1k .	1/16W	R165	NRSA63J
			- {	ł	R167	NRSA63J
R80	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R193	NRSA63J
R81	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W	R194	NRSA63J
R82	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R195	NRSA63J
R83	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R196	NRSA63J
R84	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W	R197	NRSA63J
R85	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R198	NRSA63J
R86	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R199	NRSA63J
R87	NRSA63J-821X	M.G.RESISTOR	820	1/16W		
R88	NRSA63J-391X	M.G.RESISTOR	390	1/16W	R200	NRSA63J
R89	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W	R201	NRSA63J
				i	R202	NRSA63J
R90	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	R203	NRSA63J
R91	NRSA63J-223X	M.G.RESISTOR	22k	1/16W	R204	NRSA63J
R92	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R205	NRSA63J
R93	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R206	NRSA63J
R94	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R207	NRSA63J
R95	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R208	NRSA63J
R96	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R209	NRSA63J
R97	NRSA63J-154X	M.G.RESISTOR	150k	1/16W		
R98	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R210	NRSA63J
R100	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R211	NRSA63J
	'				R213	NRSA63J
R101	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R214	NRSA63J
R102	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R219	NRSA63J
R103	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R220	NRSA63J
R112	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R221	NRSA63J
R113	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R222	NRSA63J
R114	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R223	NRSA63J
R115	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R224	NRSA63J
R116	NRSA63J-101X	M.G.RESISTOR	100	1/16W	Į	
R117	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R225	NRSA63J
R118	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R226	NRSA63J
					R227	NRSA63J
R119	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R228	NRSA63J
R120	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R229	NRSA63J
R121	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R230	NRSA63J
R122	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R231	NRSA63J
R123	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R232	NRSA63J
R124	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R233	NRSA63J
R125	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R234	NRSA63J
R126	NRSA63J-101X	M.G.RESISTOR	100	1/16W		
R127	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R235	NRSA63J
R128	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R237	NRSA63J
			1		R238	NRSA63J
R129	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R239	NRSA63J
R130	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R240	NRSA63J
R131	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R243	NRSA63J
R132	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R257	NRSA63J
R133	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R258	NRSA63J
R134	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R259	NRSA63J
R135	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R260	NRSA63J
R136	NRSA63J-101X	M.G.RESISTOR	100	1/16W		
	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R261	NRSA63J
8137	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R262	NRSA63J
R137 R138		1171. 3.11 12 013 1 011	1,00	.,	I	
R137 R138	71.102.000 1017			1	R263	NRSA63J
R138		M G RESISTOR	100	1/16W	R263 R264	
	NRSA63J-101X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	100 100	1/16W 1/16W	R263 R264 R265	NRSA63J NRSA63J

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Symbol No.	Part No.	Part Name	Descrip	tion
R142	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R143	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R145	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R148	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R150	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R151	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R153	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R154	NRSA63J-561X	M.G.RESISTOR	560 100k	1/16W
R155	NRSA63J-104X	M.G.RESISTOR	100k	1/16W 1/16W
R156	NRSA63J-104X NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR	100k	1/16W
R157		M.G.RESISTOR	100k	1/16W
R158 R159	NRSA63J-104X NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R160	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R161	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R162	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R163	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R164	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R165	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R167	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R193	NRSA63J-564X	M.G.RESISTOR	560k	1/16W
R194	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R195	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R196	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R197	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R198	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R199	NRSA63J-821X	M.G.RESISTOR	820	1/16W
R200	NRSA63J-183X	M.G.RESISTOR	18k	1/16W
R201	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R202	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R203	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R204	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R205	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R206	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R207	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R208 R209	NRSA63J-223X NRSA63J-271X	M.G.RESISTOR M.G.RESISTOR	22k 270	1/16W 1/16W
R210	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R211	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R213	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R214	NRSA63J-560X	M.G.RESISTOR	56	1/16W
R219	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R220	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R221	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R222	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R223	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R224	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R225 R226	NRSA63J-101X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	100 100	1/16₩ 1/16₩
R226	NRSA63J-101X	M.G.RESISTOR	100	1/16\ V
R228	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R229	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R230	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R231	NRSA63J-101X	M.G.RESISTOR	100	1/16₩
R232	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R233	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R234	NRSA63J-101X	M.G.RESISTOR	100	1/16\V
R235	NRSA63J-101X	M.G.RESISTOR	100	1/16₩
R237	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R238	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R239	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R240	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R243	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R257	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W 1/16W
R258	NRSA63J-0R0X	M.G.RESISTOR	0	1/16₩ 1/16₩
R259 R260	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0	1/16/
R261	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R262	NRSA63J-0R0X	M.G.RESISTOR	lo	1/16W
R263	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R264	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R265	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R266	NRSA63J-101X	M.G.RESISTOR	100	1/16₩ √
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Symbol No.	Part No.	Part Name	<u> </u>	Description	Symbol No.	Part No.
R272	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R371	NRSA63J-123X
R273	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W		
R274	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R372	NRSA63J-152X
R275	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R373	NRSA63J-330X
					R374	NRSA63J-152X
R276	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R375	NRSA63J-472X
R277	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R376 R377	NRSA63J-221X NRSA63J-221X
R278	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W 1/16W	R378	NRSA63J-472X
R279 R280	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	o	1/16W	R379	NRSA63J-182X
R282	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R380	NRSA63J-751X
R301	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R382	NRSA63J-391X
R303	NRSA63J-393X	M.G.RESISTOR	39k	1/16W	į	ĺ
R304	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R383	NRSA63J-392X
R305	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W	R384	NRSA63J-472X
l		A A DECISION	220	1/16VV	R385 R386	NRSA63J-222X NRSA63J-152X
R306	NRSA63J-331X	M.G.RESISTOR	330 750	1/16W	R387	NRSA63J-681X
R307	NRSA63J-751X NRSA63J-183X	M.G.RESISTOR M.G.RESISTOR	18k	1/16W	R388	NRSA63J-392X
R308 R309	NRSA63J-223X	M.G.RESISTOR	22k	1/16W	R389	NRSA63J-101X
R310	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R390	NRSA63J-272X
R311	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R391	NRSA63J-101X
R314	NRSA63J-183X	M.G.RESISTOR	18k	1/16W	R392	NRSA63J-222X
R315	NRSA63J-102X	M.G.RESISTOR	1k	1/16W		
R316	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R393	NRSA63J-392X
R317	NRSA63J-681X	M.G.RESISTOR	680	1/16W	R394 R395	NRSA63J-272X NRSA63J-681X
		NA O DECICEOD	2.01	1/16W	R396	NRSA63J-101X
R318	NRSA63J-392X	M.G.RESISTOR M.G.RESISTOR	3.9k 100	1/16W	R397	NRSA63J-332X
R319 R320	NRSA63J-101X NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W	R399	NRSA63J-101X
R321	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R401	NRSA63J-821X
R322	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R402	NRSA63J-471X
R323	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W	R403	NRSA63J-472X
R324	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W		
R325	NRSA63J-681X	M.G.RESISTOR	680	1/16W	R404	NRSA63J-472X
R326	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R405 R414	NRSA63J-561X NRSA63J-103X
R327	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R414	NRSA63J-123X
Dago	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R416	NRSA63J-682X
R328 R329	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R420	NRSA63J-102X
R330	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	R421	NRSA63J-102X
R331	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	R427	NRSA63J-123X
R332	NRSA63J-561X	M.G.RESISTOR	560	1/16W	R428	NRSA63J-103X
R333	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R429	NRSA63J-682X
R335	NRSA63J-393X	M.G.RESISTOR	39k	1/16W	R430	NRSA63J-332X
R336	NRSA63J-103X	M.G.RESISTOR	10k 1.5k	1/16W 1/16W	R430	NRSA63J-102X
R337	NRSA63J-152X NRSA63J-331X	M.G.RESISTOR M.G.RESISTOR	330	1/16W	R433	NRSA63J-102X
R338	NN3A033-331X	Wi.d.HEOIOTON	1000	,,,,,,,,,	R434	NRSA63J-272X
R339	NRSA63J-751X	M.G.RESISTOR	750	1/16W	R435	NRSA63J-223X
R340	NRSA63J-183X	M.G.RESISTOR	18k	1/16W	R436	NRSA63J-823X
R341	NRSA63J-223X	M.G.RESISTOR	22k	1/16W	R437	NRSA63J-684X
R342	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R438	NRSA63J-472X
R343	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R439 R440	NRSA63J-272X NRSA63J-392X
R346	NRSA63J-391X	M.G.RESISTOR	390 18k	1/16W 1/16W	N440	NN3A033-332A
R347	NRSA63J-183X	M.G.RESISTOR M.G.RESISTOR	1k	1/16W	R451	NRSA63J-101X
R348 R349	NRSA63J-102X NRSA63J-221X	M.G.RESISTOR	220	1/16W	R452	NRSA63J-391X
R350	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R453	NRSA63J-392X
1,000					R454	NRSA63J-472X
R351	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R455	NRSA63J-752X
R352	NRSA63J-681X	M.G.RESISTOR	680	1/16W	R456	NRSA63J-752X
R353	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W	R457	NRSA63J-152X
R354	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R601	NRSA63J-750X NRSA63J-182X
R355	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W 1/16W	R603 R604	NRSA63J-182X
R356	NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	100 2.2k	1/16W	11004	14113A033-102A
R357 R358	NRSA63J-222X NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W	R606	NRSA63J-750X
R359	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W	R608	NRSA63J-182X
R360	NRSA63J-681X	M.G.RESISTOR	680	1/16W	R609	NRSA63J-182X
1 ,		1			R611	NRSA63J-750X
R361	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R613	NRSA63J-182X
R362	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R614	NRSA63J-182X
R363	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R616	NRSA63J-103X
R364	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R617 R618	NRSA63J-101X NRSA63J-101X
R365	NRSA63J-272X	M.G.RESISTOR	2.7k 2.7k	1/16W 1/16W	R619	NRSA63J-101X NRSA63J-101X
R366	NRSA63J-272X NRSA63J-561X	M.G.RESISTOR M.G.RESISTOR	560	1/16W	11013	
R367 R368	NRSA63J-561X	M.G.RESISTOR	1k	1/16W	R620	NRSA63J-101X
R370	NRSA63J-393X	M.G.RESISTOR	39k	1/16W	R621	NRSA63J-101X
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Symbol No.	Part No.	Part Name	Description	
R371	NRSA63J-123X	M.G.RESISTOR	12k 1/16W	
			1.5k 1/16W	
R372	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W 33 1/16W	
R373	NRSA63J-330X	M.G.RESISTOR M.G.RESISTOR	1.5k 1/16W	
R374	NRSA63J-152X		4.7k 1/16W	
R375	NRSA63J-472X	M.G.RESISTOR M.G.RESISTOR	220 1/16W	
R376	NRSA63J-221X		220 1/16W	
R377	NRSA63J-221X	M.G.RESISTOR	4.7k 1/16W	
R378	NRSA63J-472X	M.G.RESISTOR M.G.RESISTOR	1.8k 1/16W	
R379	NRSA63J-182X	M.G.RESISTOR	750 1/16W	
R380 R382	NRSA63J-751X NRSA63J-391X	M.G.RESISTOR	390 1/16W	
nooz	INNOA000-001A	Wi.G.NESISTOR	1,1011	
R383	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W	
R384	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W	
R385	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	
R386	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W	
R387	NRSA63J-681X	M.G.RESISTOR	680 1/16W	
R388	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W	
R389	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R390	NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W	
R391	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R392	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	
R393	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W	
R393 R394	NRSA63J-392X NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W	
R395	NRSA63J-681X	M.G.RESISTOR	680 1/16W	
R396	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R397	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W	
R399	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R401	NRSA63J-821X	M.G.RESISTOR	820 1/16W	
R402	NRSA63J-471X	M.G.RESISTOR	470 1/16W	
R403	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W	
R404	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W	
R405	NRSA63J-561X	M.G.RESISTOR	560 1/16W	
R414	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	
R415	NRSA63J-123X	M.G.RESISTOR	12k 1/16W	
R416	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W	
R420	NRSA63J-102X	M.G.RESISTOR	1k 1/16W	
R421	NRSA63J-102X	M.G.RESISTOR	12k 1/16W	
R427	NRSA63J-123X	M.G.RESISTOR	10k 1/16W	
R428 R429	NRSA63J-103X NRSA63J-682X	M.G.RESISTOR M.G.RESISTOR	6.8k 1/16W	
11425	N113A033-002X	IVI.G.HESISTON	0.5K	
R430	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W	
R432	NRSA63J-102X	M.G.RESISTOR	1k 1/16W	
R433	NRSA63J-102X	M.G.RESISTOR	1k 1/16W	
R434	NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W	
R435	NRSA63J-223X	M.G.RESISTOR	22k 1/16W	
R436	NRSA63J-823X	M.G.RESISTOR	82k 1/16W 680k 1/16W	
R437	NRSA63J-684X	M.G.RESISTOR	1	
R438	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W 2.7k 1/16W	
R439 R440	NRSA63J-272X	M.G.RESISTOR M.G.RESISTOR	2.7k 1/16W 3.9k 1/16W	
N440	NRSA63J-392X	IVI.G.ITEGIOTOR	1,1000	
R451	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R452	NRSA63J-391X	M.G.RESISTOR	390 1/16W	
R453	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W	
R454	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W	
R455	NRSA63J-752X	M.G.RESISTOR	7.5k 1/16W	
R456	NRSA63J-752X	M.G.RESISTOR .	7.5k 1/16W	
R457	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W	
R601	NRSA63J-750X	M.G.RESISTOR	75 1/ 1 6W	
R603	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W	
R604	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W	
R606	NRSA63J-750X	M.G.RESISTOR	75 1/16W	
R608	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W	
R609	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W	
R611	NRSA63J-750X	M.G.RESISTOR	75 1/16W	
R613	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W	
R614	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W	
R616	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	
R617	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R618	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R619	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
	NB0455 : 15 :::	M O DECICEO	100	
R620	NRSA63J-101X	M.G.RESISTOR	100 1/16W 100 1/16W	
R621	NRSA63J-101X	M.G.RESISTOR	100 1/16W	

MRSARSJRRIAN M. G. RESISTOR 0	Symbol No.	Part No.	Part Name	E	Description	Symbol No.	Part No.	Part Name		Description
Missaga-Janax Markenson		NRSA63J-0B0X	M.G. RESISTOR	0	1/16W	C14	NCS31HJ-471X	CER.CAPACITOR	470p	50
PRESS MISSAGLI-10EX M. G. RESISTOR M. M. 1789W C19 NCSIST-NCOS C21 NCSIST-NCOS C32 NCSIST-NCOS C33 M. M. 1789W C21 NCSIST-NCOS C33 M. M. 1789W C21 NCSIST-NCOS C33 M. M. 1789W C22 NCSIST-NCOS C33 M. M. 1789W C22 NCSIST-NCOS C33 M. M. 1789W C23 NCSIST-NCOS C33 M. M. 1789W C24 NCSIST-NCOS C34 NCS						C15	NCB31HK-103X	CER.CAPACITOR	0.01	50
MISSARS-10EX M. G. RESISTOR 1M				1M		C16	NCB31HK-103X	CER.CAPACITOR	0.01	50
INSAGES-1-DIX M. G. RESISTOR 10k 17/6W C19 NEPSIAM-393K E.C.APACTOR 33 10k 16/6W C20 NEPSIAM-393K E.C.APACTOR 30 10k 16/6W C20 NEPSIAM-393K E.C.APACTOR 30 10k 16/6W C20 NEPSIAM-393K E.C.APACTOR 30 10k 16/6W C20 NEPSIAM-393K E.C.APACTOR 30 10k 16/6W C20 NEPSIAM-393K E.C.APACTOR 30 10k 16/6W C20 NEPSIAM-393K E.C.APACTOR 30 10k 16/6W C20 NEPSIAM-393K E.C.APACTOR 30 10k 16/6W C20 NEPSIAM-393K E.C.APACTOR 30 10k 16/6W C20 NEPSIAM-393K E.C.APACTOR 30 10k 16/6W						C17	NCB31HK-103X	CER.CAPACITOR	0.01	50
Missagasi Loss Missagasi									33	10
Ress Missaes.10 M. G. RESISTOR 100 1769W C21 MERIPIAM/988W E.C.APACTOR 33 11 Medical Resistor 100 1769W C22 MCG31H-K103X CEC.APACTOR 33 11 Medical Resistor 100 1769W C24 MCG31H-K103X CEC.APACTOR 0.01 58 Medical Resistor 100 1769W C24 MCG31H-K103X CEC.APACTOR 0.01 58 Medical Resistor 100 1769W C24 MCG31H-K103X CEC.APACTOR 0.01 58 Medical Resistor 100 1769W C25 MCG31H-K103X CEC.APACTOR 0.01 58 Medical Resistor 100 1769W C25 MCG31H-K103X CEC.APACTOR 0.01 58 Medical Resistor 100 1769W C26 MCG31H-K103X CEC.APACTOR 0.01 58 Medical Resistor 100 1769W C27 MCG31H-K103X CEC.APACTOR 0.01 58 Medical Resistor 100 1769W C28 MCG31H-K103X CEC.APACTOR 0.01 58 Medical Resistor 100 1769W C28 MCG31H-K103X CEC.APACTOR 0.01 58 Medical Resistor 100 1769W C28 MCG31H-K103X CEC.APACTOR 0.01 58 Medical Resistor 100 1769W C28 MCG31H-K103X CEC.APACTOR 0.01 58 Medical Resistor 100 1769W C28 MCG31H-K103X CEC.APACTOR 0.01										10
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		NRSA63J-101X	M.G.RESISTOR	100	1/16W	C23	NCB31HK-103X			50
BRASE BRAS		NRSA63J-101X	M.G.RESISTOR	100	1/16W	C24	NCB31HK-103X			50
BRISS RESEARCH RESISTOR 100 17/6W CZ RESISTOR 100		NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	C25	NCB31HK-103X			50
RRSS NRSAG3-1-01X M. G. RESISTOR 100 17/6W C29 NRSS111-6R0X CERCAPACTIOR 50 50 50 50 50 50 50 5	R649	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C26	NCB31HK-103X	CER.CAPACITOR		50
BRISSAS_1-101X M.G. RESISTOR 100 1/16W C20 N.C.		NRSA63J-101X	M.G.RESISTOR	100	1/16W	C27	NCS31HJ-5R0X			50
BRISS BRISSAL 101		NR\$A63J-101X	M.G.RESISTOR	100	1/16W	C28	NCB31HK-103X			50
BRSS NRSAG2J-101X M. G. RESISTOR 100 17/6W C31 NRSAG3J-101X M. G. RESISTOR 100 17/6W C31 NRSAG3J-101X M. G. RESISTOR 100 17/6W C32 NRSAG3J-101X M. G. RESISTOR 100 17/6W C34 NRSAG3J-101X M. G. RESISTOR 100 17/6W C34 NRSAG3J-101X M. G. RESISTOR 100 17/6W C35 NRSAG3J-101X M. G. RESISTOR 100 17/6W C37 NRSAG3J-101X M. G. RESISTOR 100 17/6W C37 NRSAG3J-101X M. G. RESISTOR 100 17/6W C37 NRSAG3J-101X M. G. RESISTOR 100 17/6W C37 NRSAG3J-101X M. G. RESISTOR 100 17/6W C37 NRSAG3J-101X M. G. RESISTOR 100 17/6W C37 NRSAG3J-101X M. G. RESISTOR 100 17/6W C37 NRSAG3J-101X M. G. RESISTOR 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 50 MRSAG3J-101X M. G. RESISTOR 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 50 MRSAG3J-101X M. G. RESISTOR 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01 100 17/6W C49 OFFIAIAM-103X CEC.APACITOR 0.01		NRSA63J-101X	M.G.RESISTOR	100	1/16W	C29	NCB31HK-103X			50
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R860 R8583-101X M.G. RESISTOR 100 17/69V C33 NES91-166 C33 R4-97A-0326V E-CAPACITOR 33 16 16 16 16 16 16 16				100	1/16W	C31	NEH91AM-336X	E.CAPACITOR	33	10
RRS2 RRS23 102X	R659									10
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R865 RSA63-1-201X M.G. RESISTOR 10k 1/16W C39 NCB311HK-103X C4APACTTOR 0.01 56 R868 RSA63-1-103X M.G. RESISTOR 10k 1/16W C39 NCB311HK-103X C4APACTTOR 0.01 56 R868 RSA63-1-103X M.G. RESISTOR 10k 1/16W C39 NCB311HK-103X C4APACTTOR 0.01 56	R661	NRSA63J-102X								
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R688 NRSA831-101X M. G. RESISTOR 100 11/16W C42 NEH71AM-107X E.CAPACITOR 33 11 11 11 11 11 11 1	R666	NRSA63J-103X	M.G.RESISTOR	10k	1/16W					50
R669 NRSA63-1-01X M.G.RESISTOR 100 17/6W C-42 NEH91AM-336X E.CAPACITOR 33 11	R667	NRSA63J-103X	M.G.RESISTOR	10k	1/16W					10
R871 NRSA821-103X	R668	NRSA63J-101X	M.G.RESISTOR	100	1/16W		NEH71AM-107X			10
NRSA623-100X NG RESISTOR 100	R669	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C42	NEH91AM-336X	E.CAPACITOR	33	10
R674 MRS.A63.1-332X M. G. RESISTOR 33										50 10
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R880 NRSA63J-472X M. G. RESISTOR 4.7k 1/16W C52 NCB31HK-103X CER.CAPACITOR 0.01 55										10
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NRSAGS_1-101X NRSAGS_1-101	R685	NRSA63J-101X	M.G.RESISTOR	100						50
NRSA63_1-01X M.G.RESISTOR 100	R686	NRSA63J-101X	M.G.RESISTOR		.,					
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VR3 NVP1415-202X TRIM.RESISTOR 2k H PHASE C67 NCF31CZ-104X CER.CAPACITOR 0.1 1 VR301 NVP1415-202X TRIM.RESISTOR 2k R LEV C301 NCB31HK-103X CER.CAPACITOR 0.01 55 VR303 NVP1415-202X TRIM.RESISTOR 500 Y LEV C302 NCB31HK-103X CER.CAPACITOR 0.01 55 VR304 NVP1415-501X TRIM.RESISTOR 10k B DL C304 NEH71AM-107X E.CAPACITOR 10 10 11 11 11 12 </td <td> ,,,,</td> <td>N. 1704</td> <td>TOUR DECUCTOR</td> <td>41.</td> <td>VOUTLEY</td> <td>CGE</td> <td>NCC21 L 1 471V</td> <td>CER CAPACITOR</td> <td>470n</td> <td>50</td>	,,,,	N. 1704	TOUR DECUCTOR	41.	VOUTLEY	CGE	NCC21 L 1 471V	CER CAPACITOR	470n	50
VR301 NVP1415-202X TRIM.RESISTOR 2k B LEV C301 NCB31HK-103X CER.CAPACITOR 0.01 50 VR302 NVP1415-202X TRIM.RESISTOR 2k B LEV C302 NCB31HK-103X CER.CAPACITOR 0.01 50 VR303 NVP1415-501X TRIM.RESISTOR 500 Y LEV C303 NCB31HK-103X CER.CAPACITOR 0.01 50 VR304 NVP1415-103X TRIM.RESISTOR 10k B DL C304 NEH71AM-107X E.CAPACITOR 100 11 VR307 NVP1415-103X TRIM.RESISTOR 10k R DL C310 NCB31HK-103X CER.CAPACITOR 0.01 50 VR601 NVP1415-202X TRIM.RESISTOR 2k CP R C312 NEH71AM-107X E.CAPACITOR 0.01 50 VR603 NVP1415-102X TRIM.RESISTOR 2k PS DC C314 NCB31HK-103X CER.CAPACITOR 0.01 50 VR604 NVP1415-202X TRIM.RESISTOR 2k PS DC C314										16
VR302 NP1415-202X TRIM.RESISTOR 2k B LEV C302 NCB31HK-103X CER.CAPACITOR 0.01 5 VR303 NVP1415-501X TRIM.RESISTOR 500 Y LEV C303 NLP1415-103X E.CAPACITOR 47 10 VR304 NVP1415-103X TRIM.RESISTOR 10k B DL C304 NEH71AM-107X E.CAPACITOR 100 11 VR307 NVP1415-103X TRIM.RESISTOR 10k R DL C310 NEH71AM-107X E.CAPACITOR 0.01 50 VR601 NVP1415-102X TRIM.RESISTOR 2k CP Y C311 NEH91CM-476X E.CAPACITOR 0.01 50 VR602 NVP1415-102X TRIM.RESISTOR 1k CP R C312 NEH91CM-476X E.CAPACITOR 0.01 50 VR604 NVP1415-02X TRIM.RESISTOR 2k PS DC C314 NCB31HK-103X CER.CAPACITOR 0.01 50 C1 NCB31HK-103X CER.CAPACITOR 0.01 50V C315 <										50
VR303 NP1415-501X TRIM.RESISTOR 500 Y LEV C303 NEH91CM-476X E.CAPACITOR 47 10 NP1415-103X TRIM.RESISTOR 10k B DL C304 NEH71AM-107X E.CAPACITOR 100 11 NP1415-103X TRIM.RESISTOR 10k B DL C310 NCB31HK-103X CER.CAPACITOR 100 11 NP1415-103X TRIM.RESISTOR 10k B DL C311 NEH91CM-476X E.CAPACITOR 100 11 NP1415-103X TRIM.RESISTOR 2k CPY C311 NEH91CM-476X E.CAPACITOR 100 11 NP1415-102X TRIM.RESISTOR 1k CP B C312 NCB31HK-103X E.CAPACITOR 100 11 NCB31HK-103X TRIM.RESISTOR 1k CP B C313 NCB31HK-103X CER.CAPACITOR 100 11 NCB31HK-103X CER.CAPACITOR 100 11 NCB31HK-103X CER.CAPACITOR 100 15 NCB31										50
VR304 NVP1415-103X TRIM.RESISTOR 10k B DL C304 NEH71AM-107X E.CAPACITOR 100 11 VR307 NVP1415-103X TRIM.RESISTOR 10k R DL C310 NCB31HK-103X CER.CAPACITOR 0.01 55 VR602 NVP1415-102X TRIM.RESISTOR 1k CP R C312 NEH91CM-476X E.CAPACITOR 10 11 VR602 NVP1415-102X TRIM.RESISTOR 1k CP R C312 NEH71AM-107X E.CAPACITOR 10 11 VR604 NVP1415-102X TRIM.RESISTOR 1k CP B C313 NCB31HK-103X CER.CAPACITOR 0.01 50 VR604 NVP1415-02X TRIM.RESISTOR 2k PS DC C314 NCB31HK-103X CER.CAPACITOR 0.01 50 C1 NCB31HK-103X CER.CAPACITOR 0.01 50V C317 NCB31HK-103X CER.CAPACITOR 0.01 50V C3 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 <							1			16
VR307 NVP1415-103X TRIM.RESISTOR 10k R DL C310 NCB31HK-103X CER.CAPACITOR 0.01 50 VR601 NVP1415-202X TRIM.RESISTOR 2k CPY C311 NEH91CM-476X E.CAPACITOR 47 11 VR602 NVP1415-102X TRIM.RESISTOR 1k CP R C312 NEH71AM-107X E.CAPACITOR 100 11 VR604 NVP1415-102X TRIM.RESISTOR 1k CP B C313 NCB31HK-103X CER.CAPACITOR 0.01 50 VR604 NVP1415-202X TRIM.RESISTOR 2k PS DC C314 NCB31HK-103X CER.CAPACITOR 0.01 50 C1 NCB31HK-103X CER.CAPACITOR 0.01 50V C315 NCB31HK-103X CER.CAPACITOR 0.01 50 C2 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50 C3 NCB31HK-103X CER.CAPACITOR 0.01 50V C319 <										10
VR601 NVP1415-202X TRIM.RESISTOR 2k CPY C311 NEH91CM-476X E.CAPACITOR 47 10 VR602 NVP1415-102X TRIM.RESISTOR 1k CP R C312 NEH71AM-107X E.CAPACITOR 100 11 VR604 NVP1415-102X TRIM.RESISTOR 1k CP B C313 NCB31HK-103X CER.CAPACITOR 0.01 50 VR604 NVP1415-202X TRIM.RESISTOR 2k PS DC C314 NCB31HK-103X CER.CAPACITOR 0.01 50 C1 NCB31HK-103X CER.CAPACITOR 0.01 50V C317 QETA1AM-227 E.CAPACITOR 0.01 50V C2 NCB31HK-103X CER.CAPACITOR 0.01 50V C319 NCB31HK-103X CER.CAPACITOR 0.01 50V C3 NCB31HK-103X CER.CAPACITOR 0.01 50V C319 NCB31HK-103X CER.CAPACITOR 0.01 50V C4 NCB31HK-103X CER.CAPACITOR 0.01 50V C320								l .		50
VR602 NVP1415-102X TRIM.RESISTOR 1k CP R C312 NEH71AM-107X E.CAPACITOR 100 10 VR603 NVP1415-102X TRIM.RESISTOR 1k CP B C313 NCB31HK-103X CER.CAPACITOR 0.01 5 VR604 NVP1415-202X TRIM.RESISTOR 2k PS DC C314 NCB31HK-103X CER.CAPACITOR 0.01 5 C1 NCB31HK-103X CER.CAPACITOR 0.01 50V C315 NCB31HK-103X CER.CAPACITOR 0.01 5 C2 NCB31HK-103X CER.CAPACITOR 0.01 50V C317 QETA1AM-227 E.CAPACITOR 0.01 5 C3 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50 C4 NCB31HK-103X CER.CAPACITOR 0.01 50V C320 NCB31HK-103X CER.CAPACITOR 0.01 50V C6 NCB31HK-103X CER.CAPACITOR 0.01 50V C322 NCB										16
VR603 NVP1415-102X TRIM.RESISTOR 1k CP B C313 NCB31HK-103X CER.CAPACITOR 0.01 56 VR604 NVP1415-202X TRIM.RESISTOR 2k PS DC C314 NCB31HK-103X CER.CAPACITOR 0.01 50 C1 NCB31HK-103X CER.CAPACITOR 0.01 50V C315 NCB31HK-103X CER.CAPACITOR 0.01 50V C2 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C3 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C4 NCB31HK-103X CER.CAPACITOR 0.01 50V C319 NCB31HK-103X CER.CAPACITOR 0.01 50V C6 NCB31HK-103X CER.CAPACITOR 0.01 50V C320 NCB31HK-103X CER.CAPACITOR 10 C7 NCB31HK-103X CER.CAPACITOR 0.01 50V C322 NCB31HK-103X </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>10</td>							1			10
C1 NCB31HK-103X CER.CAPACITOR 0.01 50V C316 NCB31HK-103X CER.CAPACITOR 0.01 50V C317 QETA1AM-227 E.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C319 NCB31HK-103X CER.CAPACITOR 0.01 50V C319 NCB31HK-103X CER.CAPACITOR 0.01 50V C319 NCB31HK-103X CER.CAPACITOR 0.01 50V C320 NEH91CM-476X E.CAPACITOR 47 10V C319 NCB31HK-103X CER.CAPACITOR 0.01 50V C320 NCB31HK-103X CER.CAPACITOR 0.01 50V C320 NCB31HK-103X CER.CAPACITOR 0.01 50V C322 NCB31HK-103X CER.CAPACITOR 0.01 50V C322 NCB31HK-103X CER.CAPACITOR 0.01 50V C323 NCB31HK-103X CER.CAPACITOR 0.01 50V C324 NCB31HK-103X CER.CAPACITOR 0.01 50V C324 NCB31HK-103X CER.CAPACITOR 0.01 50V C324 NCB31HK-103X CER.CAPACITOR 0.01 50V C326			l .							50
C1 NCB31HK-103X CER.CAPACITOR 0.01 50V C317 QETA1AM-227 E.CAPACITOR 0.01 55 QER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C319 NCB31HK-103X CER.CAPACITOR 0.01 50V C319 NCB31HK-103X CER.CAPACITOR 0.01 50V C320 NCB31HK-103X CE	VR604	NVP1415-202X	TRIM.RESISTOR	2k	PS DC	C314	NCB31HK-103X			50
C1 NCB31HK-103X CER.CAPACITOR 0.01 50V C317 QETA1AM-227 E.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C319 NCB31HK-103X CER.CAPACITOR 0.01 50V C320 NEH91CM-476X E.CAPACITOR 0.01 50V C320 NCB31HK-103X CER.CAPACITOR 0.01 50V C320 NCB31HK-103X CER.CAPACITOR 0.01 50V C320 NCB31HK-103X CER.CAPACITOR 0.01 50V C322 NCB31HK-103X CER.CAPACITOR 0.01 50V C322 NCB31HK-103X CER.CAPACITOR 0.01 50V C322 NCB31HK-103X CER.CAPACITOR 0.01 50V C324 NCB31HK-103X CER.CAPACITOR 0.01 50V C324 NCB31HK-103X CER.CAPACITOR 0.01 50V C324 NCB31HK-103X CER.CAPACITOR 0.01 50V C326 NCB31HK-103X CER.CAPACITOR 0.01 50V C32				1	ì					50
C2 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C319 NCB31HK-103X CER.CAPACITOR 0.01 50V C320 NEH91CM-476X E.CAPACITOR 0.01 50V C320 NCB31HK-103X CER.CAPACITOR 0.01 50V C322 NCB31HK-103X CER.CAPACITOR 0.01 50V C322 NCB31HK-103X CER.CAPACITOR 0.01 50V C323 NEH71AM-107X E.CAPACITOR 100 100 100 100 100 100 100 100 100 10					1	C316	NCB31HK-103X			50
C2 NCB31HK-103X CER.CAPACITOR 0.01 50V C318 NCB31HK-103X CER.CAPACITOR 0.01 50V C3 NCB31HK-103X CER.CAPACITOR 0.01 50V C319 NCB31HK-103X CER.CAPACITOR 0.01 50V C4 NCB31HK-103X CER.CAPACITOR 0.01 50V C320 NE91CM-476X E.CAPACITOR 47 11 C6 NCB31HK-103X CER.CAPACITOR 0.01 50V C322 NCS31HJ-820X CER.CAPACITOR 82p 55 C7 NCB31HK-103X CER.CAPACITOR 0.01 50V C323 NEH71AM-107X E.CAPACITOR 100 11 C8 NCB31HK-103X CER.CAPACITOR 0.01 50V C324 NCB31HK-103X CER.CAPACITOR 0.01 50V C9 NCB31HK-103X CER.CAPACITOR 0.01 50V C325 NFV41HJ-102X FILM CAPACITOR 1000p 50V C10 NCB31HK-103X CER.CAPACITOR 0.01 50V C326 NCB	C1	NCB31HK-103X	CER.CAPACITOR	0.01						10
C3				0.01						50
C4 NCB31HK-103X CER.CAPACITOR 0.01 50V C320 NEH91CM-476X E.CAPACITOR 47 11 C6 NCB31HK-103X CER.CAPACITOR 0.01 50V C322 NCB31HJ-820X CER.CAPACITOR 82p 5 C7 NCB31HK-103X CER.CAPACITOR 0.01 50V C323 NEH71AM-107X E.CAPACITOR 100 11 C9 NCB31HK-103X CER.CAPACITOR 0.01 50V C324 NCB31HK-103X CER.CAPACITOR 0.01 50V C10 NCB31HK-103X CER.CAPACITOR 0.01 50V C325 NFV41HJ-102X FILM CAPACITOR 1000p 5 C11 NCB31HK-103X CER.CAPACITOR 0.01 50V C326 NCB31HK-103X CER.CAPACITOR 0.01 50 C12 NCB31HK-103X CER.CAPACITOR 0.01 50V C326 NCB31HK-103X CER.CAPACITOR 0.01 50 C12 NCB31HK-103X CER.CAPACITOR 0.01 50V C328 NCF3						1				50
C6	C4	NCB31HK-103X	CER.CAPACITOR							16
C7 NCB31HK-103X CER.CAPACITOR 0.01 50V C323 NEH71AM-107X E.CAPACITOR 100 11 11 11 11 11 11			CER.CAPACITOR							50
C9 NCB31HK-103X CER.CAPACITOR 0.01 50V C325 NFV41HJ-102X FILM CAPACITOR 1000p 50V C311 NCB31HK-103X CER.CAPACITOR 0.01 50V C326 NCB31HK-103X CER.CAPACITOR 0.01 50V C326 NCB31HK-103X CER.CAPACITOR 0.01 50V C327 NCF31CZ-104X CER.CAPACITOR 0.1 1000p 50V C327 NCF31CZ-104X CER.CAPACITOR 0.1 1000p 50V C327 NCF31CZ-104X CER.CAPACITOR 0.1 10V C328 NCF31CZ-104X CER.CAPACIT			CER.CAPACITOR				1			10
C10 NCB31HK-103X CER.CAPACITOR 0.01 50V C325 NFV41HJ-102X FILM CAPACITOR 1000p 50 C326 NCB31HK-103X CER.CAPACITOR 0.01 50V C326 NCB31HK-103X CER.CAPACITOR 0.01 50V C327 NCF31CZ-104X CER.CAPACITOR 0.1 11 C12 NCB31HK-103X CER.CAPACITOR 0.01 50V C328 NCF31CZ-104X CER.CAPACITOR 0.1 11 C12 NCB31HK-103X		NCB31HK-103X				C324	NCB31HK-103X	CER.CAPACITOR	0.01	50
C11 NCB31HK-103X CER.CAPACITOR 0.01 50V C326 NCB31HK-103X CER.CAPACITOR 0.01 50V C327 NCF31CZ-104X CER.CAPACITOR 0.1 10 10 10 10 10 10 10 10 10 10 10 10 10		NCB31HK-103X				1 -			1.555	
C12 NCB31HK-103X CER.CAPACITOR 0.01 50V C328 NCF31CZ-104X CER.CAPACITOR 0.1 10 10 10 10 10 10 10 10 10 10 10 10 10			CER.CAPACITOR							50
C12 NCB31HK-103X CER.CAPACITOR 0.01 50V C328 NCF31CZ-104X CER.CAPACITOR 0.1	C11	NCB31HK-103X	CER.CAPACITOR	0.01	50V					50
OLD THOUSAND CELLOAR ACTION										16
C13 NCS31HJ-471X CER.CAPACITOR 470p			,							16
	C13	NCS31HJ-471X	CER.CAPACITOR	470p	50V	C329	NEM/1AM-10/X	E.CAPACITUR	1100	10

50V 50V 50V 50V 10V 10V 10V

50V 50V 50V 50V 50V 50V 50V 50V 10V

10V 10V 50V 10V 50V 16V 50V 10V 10V

50V 10V 10V 50V 10V 10V 10V 50V 50V

50V 50V 50V 50V 50V 50V 50V 10V

50V 16V 50V 50V 16V 50V 16V 10V 50V

50V 50V 50V 10V 50V 16V 50V 10V 50V

50V 50V 16V 16V 10V

Symbol No.	Part No.	Part Name	Description	
	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C333		CER.CAPACITOR		50V
C335	NCB31HK-103X	E.CAPACITOR		16V
C336	NEH91CM-476X			50V
C337	NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR		50V
C338	NCB31HK-103X	CER.CAPACITOR	0.01	, JOV
Cano	NEH71AM-107X	E.CAPACITOR	100 1	100
C339	NEH71AM-107X	E.CAPACITOR		100
C344		CER.CAPACITOR		50V
C345	NCB31HK-103X	CER.CAPACITOR		50V
C346	NCB31HK-103X			50V
C347	NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR		50V
C348	NCB31HK-103X			10V
C349	QER41AM-227	E.CAPACITOR		500
C350	NCB31HK-103X	CER.CAPACITOR		50V
C351	NCB31HK-103X	CER.CAPACITOR		167
C352	NEH91CM-476X	E.CAPACITOR	47	'°°
C354	NCS31HJ-820X	CER.CAPACITOR	82p	50V
	NEH71AM-107X	E.CAPACITOR		10V
C355	NCB31HK-103X	CER.CAPACITOR		50V
C356		FILM CAPACITOR		50V
C357	NFV41HJ-102X NCB31HK-103X	CER.CAPACITOR		50V
C358		CER.CAPACITOR		16V
C359	NCF31CZ-104X			16V
C360	NCF31CZ-104X	CER.CAPACITOR E.CAPACITOR		10V
C361	NEH71AM-107X		1	50V
C365	NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR		50V
C366	NCB31HK-103X	CER.CAPACITOR	0.01	³⁰
C367	NEH71AM-107X	E.CAPACITOR	100	10V
C372	NEH71AM-107X	E.CAPACITOR		10V
C372	NCB31HK-103X	CER.CAPACITOR		50V
C374	NCB31HK-103X	CER.CAPACITOR		50V
	QETA1AM-227	E.CAPACITOR		10V
C375 C376	NCB31HK-103X	CER.CAPACITOR		50V
	NCB31HK-103X	CER.CAPACITOR		50V
C377	NEH91CM-476X	E.CAPACITOR		16V
C378	NEH90JM-336X	E.CAPACITOR		5.3V
C379 C381	NEH71AM-107X	E.CAPACITOR	1	10V
C361	NETI/TAIVETO/A	L.CAI ACITOR	1.00	
C382	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C383	NFV41HJ-102X	FILM CAPACITOR	1000p	50V
C384	NCB31HK-103X	CER.CAPACITOR		50V
C385	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C386	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C387	NEH71AM-107X	E.CAPACITOR	100	10V
C388	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C391	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C392	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C393	NCB31HK-103X	CER.CAPACITOR	0.01	50V
1				
C399	NCB31HK-103X	CER.CAPACITOR	1 *	50V
C401	NCB31HK-103X	CER.CAPACITOR	10.0	50V
C403	NCB31HK-103X	CER.CAPACITOR		50V
C404	NEH91CM-476X	E.CAPACITOR	47	16V
C406	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C407	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C408	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C409	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C410	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C411	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
	NODDALLY 100Y	CER CARACITOR	0.01	50V
C412	NCB31HK-103X	CER.CAPACITOR	0.01 330p	50V 50V
C414	NCS31HJ-331X	CER.CAPACITOR CER.CAPACITOR	390p	50V 50V
C415	NCS31HJ-391X		0.01	50V
C416	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C421	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C601	NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01	50V
C602	NCB31HK-103X		47	16V
C603	NEH91CM-476X	E.CAPACITOR E.CAPACITOR	4.7	25V
C605	NEH91EM-475X	E.CAFACITOR	7. /	
Cene	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C606 C607	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C607	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C609	NCS31HJ-181X	CER.CAPACITOR	180p	50V
C610	NEH71AM-107X	E.CAPACITOR	100	10V
C610	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C612	NEH91EM-475X	E.CAPACITOR	4.7	25V
C612	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C614	NCB31HK-103X	CER.CAPACITOR	0.01	50V
U014	INCOSTUV-103X	CETI.CALACITOR	0.01	J

Symbol	Part No.	Part Name	Description	
No.			<u> </u>	
C615	NEH91CM-476X	E.CAPACITOR	47	16V
C617 C618	NEH91EM-475X	E.CAPACITOR CER.CAPACITOR	0.01	25V 50V
C619	NCB31HK-103X NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C620	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C621	NCS31HJ-151X	CER.CAPACITOR	150p	50V
C622	NEH71AM-107X	E.CAPACITOR	100	10V
C623	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C624	NEH91EM-475X	E.CAPACITOR	4.7	25V 50V
C625 C626	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01 0.01	50V
C627	NEH91CM-476X	E.CAPACITOR	47	16V 25V
C629	NEH91EM-475X	E.CAPACITOR CER.CAPACITOR	4.7 0.01	50V
C630 C631	NCB31HK-103X NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C632	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C633	NCS31HJ-151X	CER.CAPACITOR	150p	50V
C634	NEH71AM-107X	E.CAPACITOR	0.01	10V 50V
C635 C636	NCB31HK-103X NEH91EM-475X	CER.CAPACITOR E.CAPACITOR	4.7	25V
C637	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C638	NCB31HK-103X	CER.CAPACITOR	0.01	50V 10V
C639 C640	NEH91AM-336X NCB31HK-103X	E.CAPACITOR CER.CAPACITOR	0.01	50V
C641	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C642	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C643	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C644	NEH91HM-105X	E.CAPACITOR CER.CAPACITOR	0.01	50V 50V
C645 C646	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR	0.01	50V
C647	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C648	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C649	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C650	NEH91AM-336X	E.CAPACITOR	33	10V 50V
C654 C655	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01	50V 50V
C656	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C657	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C658	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C659	NEH91AM-336X NCB31HK-103X	E.CAPACITOR CER.CAPACITOR	0.01	10V 50V
C660		CER.CAPACITOR	0.01	50V
C663 C664	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR	0.01	50V
C665	NEH91CM-476X	E.CAPACITOR	47	16V
C667	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C668	NEH91HM-474X	E.CAPACITOR	0.47	50V 50V
C669 C670	NCS31HJ-220X NCS31HJ-100X	CER.CAPACITOR CER.CAPACITOR	22p 10p	50V
C670	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C672	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C673	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C674	NCF31CZ-104X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.1	16V 50V
C675 C676	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C677	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C678	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C679	NCB31HK-103X	CER.CAPACITOR	0.01	50V 16V
C680 C681	NEH91CM-476X NCB31HK-103X	E.CAPACITOR CER.CAPACITOR	47 0.01	50V
C682	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C683	NEH91CM-476X	E.CAPACITOR	47 0.01	16V 50V
C684 C685	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01	50V
C686	NEH91CM-476X	E.CAPACITOR	47	16V
C687	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C688	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C689	NCF31CZ-104X	CER.CAPACITOR	0.1	16V 50V
C690 C691	NCB31HK-103X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.01	16V
C692	NCS31HJ-470X	CER.CAPACITOR	47p	50V
C693	NCS31HJ-820X	CER.CAPACITOR	82p 0.01	50V 50V
C694	NCB31HK-103X	CER.CAPACITOR	10.01	JU V

Symbol	Part No.	Part Name	Description		
No.					
C696 C697	NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NEH91AM-336X NCB31HK-103X NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 50V 0.01 50V 0.01 50V 0.01 50V 33 10V 0.01 50V 0.01 50V 0.01 50V		
C703 C704 C705 C706 C800 C801 C802 C803 C804 C805	NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V		
C806 C810 C812	NCB31HK-103X NCB31HK-103X NEH71AM-107X	CER.CAPACITOR CER.CAPACITOR E.CAPACITOR	0.01 . 50V 0.01 50V 100 10V		
L2 L4	NQL024J-1R8X NQL024J-1R8X	COIL COIL	1.8uH 1.8uH		
LC1 LC2 LC3 LC4 LC5 LC6 LC7 LC8 LC9 LC10	PGZ01972Z PGZ01972Z PGZ01972Z PU48530-821J PU48530-821J PU53223-221G PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z	LC FILTER LC FILTER COIL COIL LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER	820uH 820uH 220uH		
LC11 LC12 LC13 LC14 LC15 LC16 LC17 LC18 LC19 LC20	PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z	LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER			
LC21 LC26 LC27 LC28 LC601 LC602 LC603 LC604 LC605 LC606	PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z	LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER			
LC607	PGZ01972Z	LC FILTER			
DL301 DL302	PGZO2184-Z PGZO2184-Z	DELAY LINE DELAY LINE			
X601	PGZ02178	CRYSTAL	54MHz		
CN1 CN2 CN3 CN4	QGB1211L1-80S PGZ01932-020Z PGZ01932-008Z PGZ02149-103Z	CONNECTOR CONNECTOR CONNECTOR CONNECTOR	80PIN 20PIN 8PIN 3PIN		
TP	SSV1096-001	TEST POINT	TP1-TP683		

Symbol No.	Part No.	Part Name	Description
	NQR0184-001X PGZ02181 PGZ02181 PELN0320	FL FILTER FL FILTER FL FILTER FL FILTER	
K1 K3 K4 K601 K602 K603 K604	PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS	
ТВ	PGZ02228	EARTH LUG	TB1-TB4
1 1 1 1 1 1			
	i i		

6.4 RFP BOARD ASSEMBLY PARTS LIST 04 SLK1045-01A 04

Symbol	Part No.	Part Name	Description
No.			
IC301	AN3740FAP UPC4074G2-X	I.C.(M) I.C.(M)	MATSUSHITA NEC
IC302 IC401	AN3740FAP	I.C.(M)	MATSUSHITA
IC402	UPC4074G2-X	I.C.(M)	NEC
IC501	DS90C032TM-X	I.C.(M)	NATIONAL SEMICO
IC502	DS90C031TM-X	1.C.(M)	NATIONAL SEMICO
IC503	TC7W04F-X	I.C.(M)	TOSHIBA
IC505	MC74HC08AF-X	I.C.(M)	MOTOROLA MOTOROLA
IC506 IC507	MC74HC74AF-X MC74HC08AF-X	1.C.(M) 1.C.(M)	MOTOROLA
10007	WIC74HCOOAH X	1.0.(141)	
IC801	LM2940S-5.0-W	I.C.(M)	NATIONAL SEMICO
IC802	LM2990S-5.0-W	I.C.(M)	NATIONAL SEMICO
Q101	2SC3735/4-5/-X	TRANSISTOR	NEC
Q101	2SC3735/4-5/-X	TRANSISTOR	NEC
Q103	2SA1462/3-4/-X	TRANSISTOR	NEC
Q104	2SC3735/4-5/-X	TRANSISTOR	NEC
Q105	2SC3735/4-5/-X	TRANSISTOR	NEC
Q106	2SC3735/4-5/-X	TRANSISTOR	NEC
Q107	2SC3735/4-5/-X	TRANSISTOR	NEC NEC
Q108	2SC3735/4-5/-X	TRANSISTOR TRANSISTOR	ROHM
Q109 Q110	DTC114EUA-X DTC114EUA-X	TRANSISTOR	ROHM
Q110	DICTI4EUA-A		:
Q111	2\$C3735/4-5/-X	TRANSISTOR	NEC NEC
Q201	2SC3735/4-5/-X		NEC
Q202	2SC3735/4-5/-X 2SA1462/3-4/-X	TRANSISTOR TRANSISTOR	NEC
Q203 Q204	2SC3735/4-5/-X	TRANSISTOR	NEC
Q20 4	2SC3735/4-5/-X	TRANSISTOR	NEC
Q206	2SC3735/4-5/-X	TRANSISTOR	NEC
Q207	2SC3735/4-5/-X	TRANSISTOR	NEC
Q208	2SC3735/4-5/-X	TRANSISTOR	NEC
Q209	DTC114EUA-X	TRANSISTOR	ROHM
Q210	DTC114EUA-X	TRANSISTOR	ROHM
Q211	2SC3735/4-5/-X	TRANSISTOR	NEC
Q301	2SA1577/QR/-X	TRANSISTOR	ROHM
Q303	DTC114EUA-X	TRANSISTOR	ROHM
Q305	2SC3735/4-5/-X	TRANSISTOR	NEC NEC
Q306	2SA1462/3-4/-X 2SC3735/4-5/-X	TRANSISTOR TRANSISTOR	NEC
Q307 Q308	2SC3735/4-5/-X	TRANSISTOR	NEC
0309	2SC3735/4-5/-X	TRANSISTOR	NEC
Q401	2SA1577/QR/-X	TRANSISTOR	ROHM
Q403	DTC114EUA-X	TRANSISTOR	ROHM
Q405	2SC3735/4-5/-X	TRANSISTOR	NEC
Q406	2SA1462/3-4/-X	TRANSISTOR	NEC
Q407	2SC3735/4-5/-X	TRANSISTOR	NEC
Q408	2SC3735/4-5/-X	TRANSISTOR	NEC
Q409	2SC3735/4-5/-X	TRANSISTOR TRANSISTOR	NEC ROHM
Q501 Q502	2SA1577/QR/-X DTC144EUA-X	TRANSISTOR	ROHM
Q801	2SB1073/PQ/-X	TRANSISTOR	MATSUSHITA
Q802	2SC4097/QR/-X	TRANSISTOR	ROHM
Q803	2SC4097/QR/-X	TRANSISTOR	ROHM
Q804	DTA114EUA-X	TRANSISTOR	ROHM
0.805	DTC114EUA-X	TRANSISTOR	ROHM
Q806	2SA1577/QR/-X	TRANSISTOR	ROHM
			10 1/10/1
R101	NRSA63J-100X NRSA63J-183X	M.G.RESISTOR M.G.RESISTOR	10 1/16W 18k 1/16W
R102		M.G.RESISTOR	10k 1/16W
R103 R104	NRSA63J-103X NRSA63J-100X	M.G.RESISTOR	10 1/16W
R104	NRSA63J-331X	M.G.RESISTOR	330 1/16W
R105	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R107	NRSA63J-181X	M.G.RESISTOR	180 1/16W
R108	NRSA63J-470X	M.G.RESISTOR	47 1/16VV
R109	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R110	NRSA63J-181X	M.G.RESISTOR	180 1/16W
R111	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R112	NRSA63J-220X	M.G.RESISTOR	22 1/16W
R113 R114	NRSA63J-333X	M.G.RESISTOR	33k 1/16W 22k 1/16W
	NRSA63J-223X	M.G.RESISTOR	22k 1/16W

Symbol No.	Part No.	Part Name	Description
R115	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R116	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R117	NRSA63J-220X	M.G.RESISTOR	22 1/16W 10 1/16W
R118	NRSA63J-100X	M.G.RESISTOR M.G.RESISTOR	10 1/16W 100 1/16W
R119 R120	NRSA63J-101X NRSA63J-822X	M.G.RESISTOR	8.2k 1/16W
R121	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R122	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R123	NRSA63J-821X	M.G.RESISTOR M.G.RESISTOR	820 1/16W 820 1/16W
R124 R125	NRSA63J-821X NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R126	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R127	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R128	NRSA63J-222X	M.G.RESISTOR M.G.RESISTOR	2.2k 1/16W 100 1/16W
R129 R130	NRSA63J-101X NRSA63J-220X	M.G.RESISTOR	22 1/16W
R136	NRSA63J-331X	M.G.RESISTOR	330 1/16W
R137	NRSA63J-333X	M.G.RESISTOR	33k 1/16W
R138	NRSA63J-223X	M.G.RESISTOR M.G.RESISTOR	22k 1/16W 2.2k 1/16W
R139 R142	NRSA63J-222X NRSA63J-100X	M.G.RESISTOR	10 1/16W
R201	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R202	NRSA63J-183X	M.G.RESISTOR	18k 1/16W
R203	NRSA63J-103X	M.G.RESISTOR	10k 1/16W 10 1/16W
R204 R205	NRSA63J-100X NRSA63J-681X	M.G.RESISTOR M.G.RESISTOR	680 1/16W
R206	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R207	NRSA63J-181X	M.G.RESISTOR	180 1/16W
R208	NRSA63J-470X	M.G.RESISTOR M.G.RESISTOR	1/16W 1k 1/16W
R209 R210	NRSA63J-102X NRSA63J-181X	M.G.RESISTOR	180 1/16W
R211	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R212	NRSA63J-220X	M.G.RESISTOR M.G.RESISTOR	22
R213 R214	NRSA63J-333X NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R215	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R216	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W 22 1/16W
R217 R218	NRSA63J-220X NRSA63J-100X	M.G.RESISTOR M.G.RESISTOR	22 1/16W 10 1/16W
R219	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R220	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R221	NRSA63J-223X	M.G.RESISTOR M.G.RESISTOR	22k 1/16W 2.2k 1/16W
R222 R223	NRSA63J-222X NRSA63J-821X	M.G.RESISTOR	820 1/16W
R224	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R225	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R226	NRSA63J-103X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	10k 1/16W 100 1/16W
R227 R228	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R229	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R230	NRSA63J-220X	M.G.RESISTOR	1/16W 0 1/16W
R233 R236	NRSA63J-0R0X NRSA63J-470X	M.G.RESISTOR M.G.RESISTOR	0 1/16W 47 1/16W
R237	NRSA63J-333X	M.G.RESISTOR	33k 1/16W
R238	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R239	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R242	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R301 R302	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0 1/16W 0 1/16W
R315	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R316	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R318	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R319 R320	NRSA63J-0R0X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	0 1/16W 10k 1/16W
R322	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R323	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R324	NRSA63J-121X	M.G.RESISTOR	120 1/16W 220 1/16W
R325 R326	NRSA63J-221X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0 1/16W
R328	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R329	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R330 R333	NRSA63J-0R0X NRSA63J-822X	M.G.RESISTOR M.G.RESISTOR	0 1/16W 8.2k 1/16W
n333	INTOMOSU-022A	W.G.RESISTOR	17.000

Symbol No.	Part No.	Part Name	Description
R334	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R337	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R338	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
1.000	111107100010071		, , , , , , ,
R341	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R342	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R343	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R344	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R345	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R348	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R349	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R350	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R351	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W 10k 1/16W
R352	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R353	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R354	NRSA63J-220X	M.G.RESISTOR	22 1/16W
R355	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R356	NRSA63J-390X	M.G.RESISTOR	39 1/16W
R357	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R358	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R359	NRSA63J-151X	M.G.RESISTOR	150 1/16W
R361	NRSA63J-151X	M.G.RESISTOR	150 1/16W
R362	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R363	NRSA63J-181X	M.G.RESISTOR	180 1/16W
			1/10/4/
R364	NRSA63J-151X	M.G.RESISTOR	150 1/16W
R365	NRSA63J-181X	M.G.RESISTOR M.G.RESISTOR	180 1/16W 1k 1/16W
R366	NRSA63J-102X NRSA63J-100X	M.G.RESISTOR	10 1/16W
R367 R368	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R369	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R370	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W
R371	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R372	NRSA63J-680X	M.G.RESISTOR	68 1/16W
R373	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R376	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R377	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R378	NRSA63J-681X	M.G.RESISTOR	680 1/16W
R379	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R380	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R381	NRSA63J-103X	M.G.RESISTOR	10k 1/16W 10 1/16W
R382 R383	NRSA63J-100X NRSA63J-222X	M.G.RESISTOR M.G.RESISTOR	10 1/16W 2.2k 1/16W
R385	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R386	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
11000	141107000 01107	IVI.G.INEGIOTOTI	.,
R387	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R389	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R390	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R401	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R402	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R415	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R416	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R418	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R419	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W 10k 1/16W
R420	NRSA63J-103X	M.G.RESISTOR	171044
R422	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R423	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R424	NRSA63J-121X	M.G.RESISTOR	120 1/16W
R425	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R426	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R428	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R429	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R430	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R433 R434	NRSA63J-822X NRSA63J-332X	M.G.RESISTOR M.G.RESISTOR	8.2k 1/16W 3.3k 1/16W
11434	11113A03J-332A	W.G.NESISTON	J.JK 1/100V
R437	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R438	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R441	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R442	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R443	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R444	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R445	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R448	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R449	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R450	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W

Symbol No.	Part No.	Part Name	Description
R451	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R452	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
	1.	M.G.RESISTOR	
R453	NRSA63J-222X	1	
R454	NRSA63J-220X	M.G.RESISTOR	22 1/16W
R455	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R456	NRSA63J-390X	M.G.RESISTOR	39 1/16W
R457	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R458	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R459	NRSA63J-151X	M.G.RESISTOR	150 1/16W
R461	NRSA63J-151X	M.G.RESISTOR	150 1/16W
R462	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R463	NRSA63J-181X	M.G.RESISTOR	180 1/16W
R464	NRSA63J-151X	M.G.RESISTOR	150 1/16W
R465	NRSA63J-181X	M.G.RESISTOR	180 1/16W
R466	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R467	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R468	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R469	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R470	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W
R471	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R472	NRSA63J-680X	M.G.RESISTOR	68 1/16W
R473	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R476	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R477	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R478	NRSA63J-681X	M.G.RESISTOR	680 1/16W
R479	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R480	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R481	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R482	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R483	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R485	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R486	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R487	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R489	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R490	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R501	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R502	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R503	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R504	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R505	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R506	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R507	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R508	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R509	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R510	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R511	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R512	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R513	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R514	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R515	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R516	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R517	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R518	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R519	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R520	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R521	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R522	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R523	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R524	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R525	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R526	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R527	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R533	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R536	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R537	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R538	NRSA63J-101X	M.G.RESISTOR	100 1/16W
R539	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R546	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R547 R548	NRSA63J-103X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	10k 1/16W 10k 1/16W
กจ48	INTIOAUSU-TUSA	W.G.NESISTON	
R549	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R550 R551	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0 1/16W 0 1/16W
Hoo I	INTOMOSU-UNUX	IVI.G.INLOIDTON	1/1000

Symbol No.	Part No.	Part Name	Description	
R554	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R555	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W
	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R556	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R557	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R558			47	1/16W
R559	NRSA63J-470X	M.G.RESISTOR	1k	1/16W
R560	NRSA63J-102X	M.G.RESISTOR	I K	17,7000
DE01	NIDCAGO I 100V	M.G.RESISTOR	10k	1/16W
R561	NRSA63J-103X		10k	1/16W
R562	NRSA63J-103X	M.G.RESISTOR	47	1/16W
R563	NRSA63J-470X	M.G.RESISTOR		1/16W
R564	NRSA63J-101X	M.G.RESISTOR	100	· ·
R565	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R566	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R 567	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R568	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R569	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R570	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
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R571	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R801	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R802	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R803	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R804	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R805	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R806	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R807	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R808	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R809	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
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R810	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R811	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R812	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R813	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
11010				
VR101	NVP1415-501X	TRIM.RESISTOR	500	EQ1 LEVEL
VR102	NVP1415-501X	TRIM.RESISTOR	500	RF1 LEVEL
VR201	NVP1415-501X	TRIM.RESISTOR	500	EQ2 LEVEL
VR202	NVP1415-501X	TRIM.RESISTOR	500	RF2 LEVEL
VR305	NVP1415-103X	TRIM.RESISTOR	10k	VCO FREQ
VR306		TRIM.RESISTOR	10k	LAT TIMING
VR307	1	TRIM.RESISTOR	10k	SLICE LEVEL
VR308	1	TRIM.RESISTOR	10k	ERR TIMING
VR309	1	TRIM.RESISTOR	10k	PRE EQ PH
VR310		TRIM.RESISTOR	10k	PRE EQ AMP
V11010	1441 1410 100%	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
VR311	NVP1415-102X	TRIM.RESISTOR	1k	SUB VOL.1
VR312		TRIM.RESISTOR	200	DIP ADJ.1
VR405		TRIM.RESISTOR	10k	VCO FREQ
VR406	1	TRIM.RESISTOR	10k	LAT TIMING
VR400		TRIM.RESISTOR	10k	SLICE LEVEL
VR407		TRIM.RESISTOR	10k	ERR TIMING
VR409	1, 11, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	TRIM.RESISTOR	10k	PRE EQ PH
VR409 VR410		TRIM.RESISTOR	10k	PRE EQ AMP
VR410		TRIM.RESISTOR	1k	SUB VOL.
VR411 VR412		TRIM.RESISTOR	200	DIP ADJ.2
VN412	14VF 1413-201A	THINK TESISTON	200	2
C101	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C101	NBE41CM-106X	TAN.CAPACITOR	10	16V
C102		CER.CAPACITOR	0.01	50V
C103	NCB31HK-103X	TAN.CAPACITOR	10.01	16V
C104	NBE41CM-106X		0.01	50V
C105	NCB31HK-103X	CER.CAPACITOR		50V 50V
C106	NDC31HJ-560X	CER.CAPACITOR	56p	50V 50V
C107	NDC31HJ-220X	CER.CAPACITOR	22p	
C108	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C109	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C110	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
	NODO41 W 400V	OFF CARACITOR	0.01	50V
C111	NCB31HK-103X	CER.CAPACITOR	0.01	
C112	NBE41CM-106X	TAN.CAPACITOR	10	16V
C113	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C114	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C115	NBE41CM-106X	TAN.CAPACITOR	10	16V
C116	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C117	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C118	NBE41CM-106X	TAN.CAPACITOR	10	16V
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C119 C120	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01	50V 50V

Symbol No.	Part No.	Part Name	Description
C121	NBE41CM-106X	TAN.CAPACITOR	10 16V
C122	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C123	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C124	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C127	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C201	NCB31HK-103X	CER.CAPACITOR	0.01 50V 10 16V
C202	NBE41CM-106X	TAN.CAPACITOR CER.CAPACITOR	10 16V 0.01 50V
C203 C204	NCB31HK-103X NBE41CM-106X	TAN.CAPACITOR	10 16V
C204 C205	NCB31HK-103X	CER.CAPACITOR	0.01 50V
0200	TODO TITE TOOK	02/11/07/11/10/11	
C206	NDC31HJ-390X	CER.CAPACITOR	39p 50V
C207	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C208	NDC31HJ-220X	CER.CAPACITOR	22p 50V
C209	NCF31CZ-104X	CER.CAPACITOR	0.1 16V 0.1 16V
C210 C211	NCF31CZ-104X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01 50V
C211	NBE41CM-106X	TAN.CAPACITOR	10 16V
C212	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C214	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C215	NBE41CM-106X	TAN.CAPACITOR	10 16V
İ			501
C216	NCB31HK-103X	CER.CAPACITOR	0.01 50V 0.01 50V
C217	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR	0.01 50V
C218 C219	NBE41CM-106X	TAN.CAPACITOR	10 16V
C219	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C221	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C222	NBE41CM-106X	TAN.CAPACITOR	10 16V
C223	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C224	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C227	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C201	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C301 C302	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C303	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C304	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C305	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C306	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C307	NCB21EK-104X	CER.CAPACITOR	0.1 50V
C308	NCB31HK-102X	CER.CAPACITOR	1000p 50V 0.1 16V
C309 C313	NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.1 16V
L313	NCF31CZ-104A	CEN.CAFACITOR	0.1
C314	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C315	NCS31HJ-331X	CER.CAPACITOR	330p 50V
C316	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C317	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C318	NCB31HK-152X	CER.CAPACITOR	1500p 50V 0.1 16V
C319 C320	NCF31CZ-104X NRSA63J-471X	CER.CAPACITOR M.G.RESISTOR	470 1/16W
C320	NBE21AM-106X	TAN.CAPACITOR	10 10V
C322	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C327	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
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C329	NCS31HJ-471X	CER.CAPACITOR	470p 50V
C330	NCF31CZ-104X	CER.CAPACITOR	0.1 16V 0.1 16V
C331 C332	NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1 16V
C332	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C334	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C335	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C336	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C337	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C338	NCB31HK-103X	CER.CAPACITOR	0.01 50V
Caan	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C339 C340	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C340	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C342	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C343	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C344	NBE21EM-105X	TAN.CAPACITOR	1 25V
C345	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C346	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C347	NBE21AM-106X	TAN.CAPACITOR	10 10V 10 10V
C348	NBE21AM-106X	TAN.CAPACITOR	100
C349	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C350	NBE21AM-106X	TAN.CAPACITOR	10 10V
C355	NCB11AK-225	CER.CAPACITOR	2.2 16V
			

Symbol No.	Part No.	Part Name	Description
C356	QRSA08J-471	M.G.RESISTOR	470 1/8W
C359	NBE21AM-106X	TAN.CAPACITOR	10 10V
C360	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C361	NBE21AM-106X	TAN.CAPACITOR	10 10V
C363	NBE21EM-105X	TAN.CAPACITOR	1 25V
C364	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C365	NBE41CM-106X	TAN.CAPACITOR	10 16V
C366	NBE41CM-106X	TAN.CAPACITOR	10 16V
C367	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C368	NCB31EK-103X	CER.CAPACITOR	0.01 50V
C369	NDC31HJ-680X	CER.CAPACITOR	68p 50V
C371	NCF31CZ-104X	CER.CAPACITOR	0.1 16V 0.1 16V
C372	NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.1 16V
C401 C402	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C402	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C404	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C405	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C406	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C407	NCB21EK-104X	CER.CAPACITOR	0.1 . 50V
C408	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C409	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C412	NCF31CZ-104X	CER.CAPACITOR	0.1 16V 0.1 16V
C413 C414	NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR	0.1 16V 0.1 16V
C414 C415	NCS31HJ-331X	CER.CAPACITOR	330p 50V
C417	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C418	NCB31HK-152X	CER.CAPACITOR	1500p 50V
C419	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C420	NRSA63J-471X	M.G.RESISTOR	470 1/16W
C421	NBE21AM-106X	TAN.CAPACITOR	10 10V
C422	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C427	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C429	NCS31HJ-471X	CER.CAPACITOR	470p 50V
C430	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C431	NCF31CZ-104X	CER.CAPACITOR	0.1 16V 0.1 16V
C432 C433	NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.1 16V
C433	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C435	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C436	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C437	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C438	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C439	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C440	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C441	NCB31HK-103X	CER.CAPACITOR	0.01 50V 0.01 50V
C442 C443	NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01 50V 0.01 50V
C443	NCB31HK-103X NBE21EM-105X	TAN.CAPACITOR	1 25V
C445	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C446	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C447	NBE21AM-106X	TAN.CAPACITOR	10 10V
C448	NBE21AM-106X	TAN.CAPACITOR	10 10V
C450	NBE21AM-106X	TAN.CAPACITOR	10 10V
C455	NCB11AK-225	CER.CAPACITOR	2.2 16V
C456	QRSA08J-471	M.G.RESISTOR	470 1/8W
C457	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C459	NBE21AM-106X	TAN.CAPACITOR CER.CAPACITOR	10 10V 0.01 50V
C460 C461	NCB31HK-103X NBE21AM-106X	TAN.CAPACITOR	10 10V
C463		TAN.CAPACITOR	1 25V
C463	NBE21EM-105X NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C465	NBE41CM-106X	TAN.CAPACITOR	10 16V
C466	NBE41CM-106X	TAN.CAPACITOR	10 16V
C467	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C468	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C469	NDC31HJ-680X	CER.CAPACITOR	68p 50V
C471	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C472 C501	NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.1 16V
C502 C503	NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.1 16V
C504	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
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Symbol No.	Part No.	Part Name	Description	٦
C505 C506 C507 C508 C509 C510 C511 C512 C513	NCB31HK-103X NBE41CM-106X NDC31HJ-100X NDC31HJ-100X NBE41CM-106X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCF31CZ-104X NCS31HJ-221X	CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 50V 10 16V 10p 50V 10p 50V 10p 50V 10 16V 0.01 50V 0.01 50V 0.01 50V 0.1 16V 220p 50V	
C515 C516 C517 C518 C519 C520 C521 C522 C523 C525	NCB31HK-103X NCB31HK-103X NCS31HJ-681X NCS31HJ-221X NCB31HK-103X NCB31HK-103X NCS31HJ-681X NBE41CM-106X NDC31HJ-100X NDC31HJ-3R0X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 50V 0.01 50V 680p 50V 220p 50V 0.01 50V 680p 50V 10 16V 10p 50V 3p 50V	
C526 C527 C528 C801 C802 C803 C804 C805 C806	NDC31HJ-3R0X NDC31HJ-3R0X NDC31HJ-3R0X NCB31HK-103X NEB91CM-226X NBE51CM-226X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	3p 50V 3p 50V 3p 50V 0.01 50V 22 16V 22 16V 0.01 50V 0.01 50V 0.01 50V 0.01 50V	
C808 C809 C810 C811 C812 C813 C814 C815 C816 C817	NCB31HK-103X NEH91CM-226X NBE51CM-226X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NEH91CM-226X NCB31HK-103X NEH91EM-106X	CER.CAPACITOR E.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR	0.01 50V 22 16V 22 16V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 22 16V 0.01 50V 10 25V	
C818 C821 C822 C826 C827 C828	NCF31CZ-104X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V	
VC301 VC401	NAT3112-200RZ NAT3112-200RZ	TRIM.CAPACITOR TRIM.CAPACITOR	20p DL ADJ.1 20p DL ADJ.2	
L101 L102 L201 L202 L802	NQL024J-R47X NQL024J-R47X NQL024J-R47X NQL024J-R47X NQL024J-100X	COIL COIL COIL COIL COIL	0.47uH 0.47uH 0.47uH 0.47uH 10uH	
TH302 TH401	NAD0002-103X NAD0002-103X NAD0002-103X NAD0002-103X	THERMISTOR THERMISTOR THERMISTOR THERMISTOR	10k 10k 10k 10k	
	SCV2596-030W	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR	11PIN 22PIN BPIN 30PIN 20PIN	
TP	SSV1096-001	TEST POINT	TP101-TP525	
∆СР801 ∆СР802 ∆СР803	ICP-S1.0TN ICP-S1.0TN ICP-S0.5TN	ICP ICP ICP		
FL301 FL401	PGZ02180-W PGZ02180-W	FL FILTER FL FILTER		

6.5 S/S REG BOARD ASSEMBLY PARTS LIST 0 5 SLK1025-A1A(for U. Ver.)/SLK1025-B0A(for E. Ver.) 0 5

	SLK1025-A1A(for U. Ver.)/SLK1025-B0A(for E. Ver.) 0 5 0 5						
Symbol No.	Part No.	Part Name	Description	Symbol No.	Part No.	Part Name	Description
K101 K102 K103 K104 K105	PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS		IC1 IC2 IC3 IC4 IC5	TC7W126FU-X TC7W74F-X TC7W74F-X TC4S584F-X TC4S584F-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA NEC
K201 K202 K203 K204 K205	PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS		IC6 IC7 IC8 IC9 IC9	UPD71055GB-10 TC74HC138AF-X TC7S04F-X PLSL1019 PLSL1040	I.C.(M) I.C.(M) I.C.(M) I.C.(M)	TOSHIBA TOSHIBA JVC (U) JVC (E)
K301 K303 K304	PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS		SK9	SCV1841-028	IC SOCKET	FOR IC9
K305 K306 K307 K308 K309 K401 K403	PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS		IC10 IC11 IC12 IC13 IC14 IC15 IC16	TC4W53F-X S-8054HN-CB-X TC4S584F-X AN77L05M-X SC78148GF-026 S-8054HN-CB-X TC4S584F-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	TOSHIBA SEIKO TOSHIBA MATSUSHITA NEC SEIKO TOSHIBA
K404 K405 K406 K407	PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS		IC17 IC18 IC19	TC74HC573AF-X TC4W53F-X BA10358F-X	I.C.(M) I.C.(M) I.C.(M)	TOSHIBA TOSHIBA ROHM
K408 K409 K501 K502 K503 K504	PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS		IC20 IC21 IC22 IC23 IC24 IC25 IC26 IC27	BA10358F-X BA6285FP-X BA10358F-X TC4066BF-X NJM2068M-D-X BA10393F-X NJM2068M-D-X BA10393F-X TC4\$30F-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	ROHM ROHM TOSHIBA JRC ROHM JRC ROHM TOSHIBA
K506 K507 K508 K509 K510 K511 K512 K513 K514	PGZ00627Z PGZ01823-121AZ PGZ01823-121AZ PGZ01823-121AZ PGZ01823-121AZ PGZ01823-121AZ PGZ01823-121AZ PGZ01823-121AZ PGZ01823-121AZ	FERRATE BEADS EMI FILTER EMI FILTER EMI FILTER EMI FILTER EMI FILTER EMI FILTER EMI FILTER EMI FILTER EMI FILTER		IC28 IC29 IC30 IC31 IC32 IC33 IC34 IC35 IC36	TC4S30F-X TC4S30F-X TC7W74F-X BA6862FS-X BA7043FS-X TC7W00F-X BR24C02F-X BA10358F-X AN77L05M-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	TOSHIBA TOSHIBA ROHM ROHM TOSHIBA ROHM ROHM ROHM MATSUSHITA
K801 K802 K803	PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS		IC37 IC38 IC39	AN77L05M-X AN77L05M-X AN77L05M-X	I.C.(M) I.C.(M) I.C.(M)	MATSUSHITA MATSUSHITA MATSUSHITA
K804 K805 K806 K807 K808 K809	PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS		IC501 IC502 IC503 IC504 IC505		I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	FUJITSU FUJITSU ROHM FUJITSU MATSUSHITA
Т	PGZ02198-02Z	COIL	T101-T801	Q1 Q3 Q4	2SC4081/QRS/-X 2SB1073/PQ/-X DTC114EUA-X	TRANSISTOR TRANSISTOR TRANSISTOR	ROHM MATSUSHITA ROHM
IC41	- RFP SUB B	OARD ASSEMBLY	SLK2063 – NEC	Q5 Q6 Q7 Q8 Q9	DTA114EUA-X DTC124EUA-X DTA114EUA-X DTA114EUA-X DTC114EUA-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM
C41 C42	NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.1 16V	Q10 Q12	2SC2873/Y/-X FMG1A-W	TRANSISTOR TRANSISTOR	TOSHIBA ROHM
R31 R32 R33 R34 R35 R41 R42 R43 R44 R45	NRSA63J-272 NRSA63J-332 NRSA63J-153 NRSA63J-223 NRSA63J-332 NRSA63J-332 NRSA63J-332 NRSA63J-153 NRSA63J-223 NRSA63J-332	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	2.7k 1/16W 3.3k 1/16W 15k 1/16W 22k 1/16W 2.7k 1/16W 3.3k 1/16W 3.3k 1/16W 3.3k 1/16W 3.3k 1/16W 3.3k 1/16W 15k 1/16W 3.3k 1/16W	Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22	FMC2A-X DTC124EUA-X FMC2A-X DTA114EUA-X 2SC4081/QRS/-X DTC114EUA-X 2SC4081/QRS/-X DTC114EUA-X 2SC4081/QRS/-X DTA124EUA-X 2SB1073/PQ/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM
D31 D41	MA152WK-T MA152WK-T	DIODE	MATSUSHITA MATSUSHITA	Q23 Q24 Q25	DTC114EUA-X FMG1A-W 2SC4081/QRS/-X	TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM

Symbol No.	Part No.	Part Name	Description
Q26 Q27 Q28 Q29 Q501 Q502 Q505	2SB1073/PQ/-X 2SB1073/PQ/-X 2SB1073/PQ/-X 2SC4081/QRS/-X 2SJ279S-X DTC124EUA-X 2SJ279S-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FET TRANSISTOR FET TRANSISTOR	MATSUSHITA MATSUSHITA MATSUSHITA ROHM HITACHI ROHM HITACHI
Q506 Q507 Q508 Q509 Q510 Q511 Q512 Q513 Q514 Q515	2SC4097/OR/-X 2SA1577/QR/-X 2SJ279S-X 2SC4097/OR/-X 2SA1577/QR/-X 2SJ279S-X 2SC4097/QR/-X 2SA1577/QR/-X 2SJ279S-X 2SC4097/QR/-X	TRANSISTOR TRANSISTOR FET TRANSISTOR FET TRANSISTOR FET TRANSISTOR TRANSISTOR FET TRANSISTOR	ROHM ROHM HITACHI ROHM ROHM HITACHI ROHM ROHM HITACHI ROHM
Q516 Q518 Q519 Q520 Q521 Q522 Q523 Q525 Q526 Q527	2SA1577/QR/-X 2SJ279S-X 2SC4097/QR/-X 2SA1577/QR/-X 2SJ279S-X 2SC4097/QR/-X 2SA1577/QR/-X 2SC4097/QR/-X 2SC4097/QR/-X 2SA1577/QR/-X	TRANSISTOR FET TRANSISTOR TRANSISTOR FET TRANSISTOR TRANSISTOR FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM HITACHI ROHM ROHM HITACHI ROHM ROHM HITACHI ROHM ROHM ROHM
Q528 Q529 Q533 Q534 Q535	2SA1577/QR/-X 2SC4097/QR/-X 2SJ279S-X 2SC4097/QR/-X 2SA1577/QR/-X	TRANSISTOR TRANSISTOR FET TRANSISTOR TRANSISTOR	ROHM ROHM HITACHI ROHM ROHM
D1 D2 D3 D4 D5 D6 D7 D8 D9	MA738-X MA3120/M/-X MA3130/M/-X DAP202U-X DAN202U-X DAN202U-X DAN202U-X DAN202U-X DAN202U-X 1SS133 DAP202U-X	DIODE ZENER DIODE ZENER DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	MATSUSHITA MATSUSHITA MATSUSHITA ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM
D12 D13 D14 D15 D16 D19 D20 D502 D503 D504	DAN202U-X MA3020-X DAN202U-X MA3075/M/-X MA3091/M/-X MA3091/M/-X DAN202U-X MA736-X MA736-X MA736-X	DIODE ZENER DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	ROHM MATSUSHITA ROHM MATSUSHITA MATSUSHITA MATSUSHITA ROHM MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA
D506 D507 D508 D509 D511 D512 D514 D515	MA736-X MA736-X MA3056/M/-X MA736-X MA736-X DA114-X MA736-X DA114-X	DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA ROHM MATSUSHITA ROHM
R1 R2 R3 R4 R5 R6 R7 R8 R9 R10	NRSA63J-104X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-473X NRSA63J-473X NRSA63J-473X NRSA63J-473X NRSA63J-104X NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100k 1/16W 100 1/16W 100 1/16W 100 1/16W 47k 1/16W 47k 1/16W 47k 1/16W 47k 1/16W 100k 1/16W

Symbol No.	Part No.	Part Name	Description	on
R11 R12	NRSA63J-104X NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR	1.0	/16W /16W
R13	NRSA63J-104X	M.G.RESISTOR		/16W
R14	NRSA63J-391X	M.G.RESISTOR	390 1	/16W
R15	NRSA63J-473X	M.G.RESISTOR	47k 1	/16W
R16	NRSA63J-681X	M.G.RESISTOR	680 1	/16W
R17	NRSA63J-103X	M.G.RESISTOR		/16W
R18	NRSA63J-103X	M.G.RESISTOR		/16W
R19	NRSA63J-103X	M.G.RESISTOR	1	/16W
R20	NRSA63J-102X	M.G.RESISTOR	1k 1	/16W
R21 R22	NRSA63J-103X NRSA63J-271X	M.G.RESISTOR M.G.RESISTOR		/16W /16W
R23	NRSA63J-104X	M.G.RESISTOR		/16W
R24	NRSA63J-563X	M.G.RESISTOR	56k 1	/16W
R25	NRSA63J-563X	M.G.RESISTOR	56k 1	/16W
R26	NRSA63J-563X	M.G.RESISTOR		/16W
R27	NRSA63J-103X	M.G.RESISTOR		/16W
R28	NRSA63J-103X	M.G.RESISTOR	1	/16W
R29 R30	NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR		/16W /16W
nau	NRSA63J-103X	Wi.G.RESISTON		
R31 R32	NRSA63J-681X NRSA63J-821X	M.G.RESISTOR M.G.RESISTOR		/16W /16W
R33	NRSA63J-102X	M.G.RESISTOR	1000	/16W
R34	NRSA63J-681X	M.G.RESISTOR	1	/16W
R35	NRSA63J-821X	M.G.RESISTOR	820 1	/16W
R36	NRSA63J-102X	M.G.RESISTOR		/16W
R37	NRSA63J-104X	M.G.RESISTOR		/16W
R38	NRSA63J-102X	M.G.RESISTOR	I .	/16W
R39	NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR		/16W /16W
R40	NRSA63J-104X	M.G.RESISTOR		
R41	NRSA63J-121X	M.G.RESISTOR		/16W /16W
R42 R43	NRSA63J-222X NRSA63J-472X	M.G.RESISTOR M.G.RESISTOR		/16W
R44	NRSA63J-472X	M.G.RESISTOR		/16W
R45	NRSA63J-104X	M.G.RESISTOR		/16W
R46	NRSA63J-562X	M.G.RESISTOR	5.6k 1	/16W
R47	NRSA63J-102X	M.G.RESISTOR		/16W
R48	NRSA63J-224X	M.G.RESISTOR		/16W
R49 R50	NRSA63J-102X NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR		/16W /16W
DE1	NRSA63J-102X	M.G.RESISTOR	 1k 1	/16W
R51 R53	NRSA63J-474X	M.G.RESISTOR		/16W
R54	NRSA63J-104X	M.G.RESISTOR		/16W
R55	NRSA63J-394X	M.G.RESISTOR		/16W
R56	NRSA63J-272X	M.G.RESISTOR		/16W
R57	NRSA63J-681X	M.G.RESISTOR		/16W
R58	NRSA63J-333X	M.G.RESISTOR	1	/16W
R59	NRSA63J-472X NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR	1	/16W /16W
R60 R61	NRSA63J-104X	M.G.RESISTOR		/16W
R62	NRSA63J-472X	M.G.RESISTOR	 4.7k 1	/16W
R63	NRSA63J-472X	M.G.RESISTOR		/16W
R64	NRSA63J-473X	M.G.RESISTOR	47k 1	/16W
R65	NRSA63J-473X	M.G.RESISTOR		/16W
R66	NRSA63J-393X	M.G.RESISTOR		/16W
R67	NRSA63J-153X	M.G.RESISTOR		/16W
R68	NRSA63J-103X NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR		/16W /16W
R69 R70	NRS144J-2R2X	M.G.RESISTOR	2.2	1/4W
R71	NRS144J-1R0X	M.G.RESISTOR	1	1/4W
R72	NRSA63J-222X	M.G.RESISTOR		/16W
R73	NRSA63J-472X	M.G.RESISTOR	4.7k 1	/16W
R74	NRSA63J-472X	M.G.RESISTOR		/16W
R75	NRSA63J-183X	M.G.RESISTOR		/16W
R76	NRSA63J-823X	M.G.RESISTOR		/16W /16W
R77 R78	NRSA63J-223X NRSA63J-332X	M.G.RESISTOR M.G.RESISTOR		/16W /16W
R79	NRSA63J-273X	M.G.RESISTOR		/16W
R80	NRSA63J-473X	M.G.RESISTOR	47k 1	/16W
R81	NRSA63J-102X	M.G.RESISTOR		/16W
R82	NRSA63J-104X	M.G.RESISTOR	Į.	/16W
R83	NRSA63J-103X	M.G.RESISTOR		/16W
R84	NRSA63J-472X	M.G.RESISTOR	4.7k 1	/16W

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Symbol No.	Part No.	Part Name	D	escription	Symbol No.	Part No.	Part Name		Description
R85	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	R161	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R86	NRSA63J-105X	M.G.RESISTOR	1M	1/16W	R162	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R87	NRSA63J-393X	M.G.RESISTOR	39k	1/16W	R163	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R88	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R164	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R89	NRSA63J-223X	M.G.RESISTOR	22k	1/16W					
R90	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R165	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R91	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R166	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
ng i	NN3A033-104A	WI.G. RESISTOR	TOOK	1,,1011	R167	NRSA63J-274X	M.G.RESISTOR	270k	1/16W
R92	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R168	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R93	NRSA63J-4R7X	M.G.RESISTOR	4.7	1/16W	R169	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
	NRSA63J-123X	M.G.RESISTOR	12k	1/16W	R170	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R94		M.G.RESISTOR	150k	1/16W	R171	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R95	NRSA63J-154X NRSA63J-101X	M.G.RESISTOR	100	1/16W	R172	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R99		M.G.RESISTOR	100k	1/16W	R173	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R100	NRSA63J-104X NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R174	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R101	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	1				
R102	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R175	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R103	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R176	NRSA63J-274X	M.G.RESISTOR	270k	1/16W
R104	MUSWOSS-103V	IVI.G.NESISTON	TOK	1,1011	R177	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
DIOS	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R178	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R105	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R179	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R106	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R180	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R107	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R181	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R108		M.G.RESISTOR	10k	1/16W	R182	NRSA63J-823X	M.G.RESISTOR	82k	1/16W
R109	NRSA63J-103X NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R183	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R110	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R184	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R111	NRSA63J-104X	M.G.RESISTOR	100	1/16W	'''	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
R112	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R185	NRSA63J-184X	M.G.RESISTOR	180k	1/16W
R113		M.G.RESISTOR	100	1/16W	R186	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R114	NRSA63J-101X	W.G.NESISTON	100	1,1011	R187	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
D115	NDCAGO LAZIV	M.G.RESISTOR	470	1/16W	R188	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R115	NRSA63J-471X	M.G.RESISTOR	1k	1/16W	R189	NRS144J-1R0X	M.G.RESISTOR	1	1/4W
R116	NRSA63J-102X	M.G.RESISTOR	100	1/16W	R190	NRS144J-2R2X	M.G.RESISTOR	2.2	1/4W
R117	NRSA63J-101X	M.G.RESISTOR	1M	1/16W	R191	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R118	NRSA63J-105X	M.G.RESISTOR	100	1/16W	R192	NRSA63J-474X	M.G.RESISTOR	470k	1/16W
R119	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R193	NRSA63J-124X	M.G.RESISTOR	120k	1/16W
R120	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R194	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R121	NRSA63J-101X	M.G.RESISTOR	100	1/16W	1	11110/1000 100/1			
R122	NRSA63J-101X NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R195	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R123		M.G.RESISTOR	1k	1/16W	R196	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R124	NRSA63J-102X	W.G.NESISTON	116	1710**	R197	NRSA63J-121X	M.G.RESISTOR	120	1/16W
D105	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R198	NRSA63J-121X	M.G.RESISTOR	120	1/16W
R125		M.G.RESISTOR	1k	1/16W	R199	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
R126	NRSA63J-102X NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R201	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R127	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R202	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R128 R129	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R203	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R130	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R204	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R205	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R131 R132	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	'				
	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R206	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R133 R134	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R207	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
n134	NASA033-102A	W.G.MESIOTON	1'"	,,,,,,,	R208	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R135	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R209	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R136	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R210	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R137	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R211	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R138	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R212	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R139	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R213	NRSA63J-101X	M.G.RESISTOR	100	1 / 16W
R140	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R501	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R140	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R502	NRSA63F-153X	M.G.RESISTOR	15k	1/16W
R142	NRSA63J-681X	M.G.RESISTOR	680	1/16W				- 1	
R142	NRSA63J-681X	M.G.RESISTOR	680	1/16W	R503	NRSA63F-222X	M.G.RESISTOR	2.2k	1/16W
	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R504	NRSA63F-222X	M.G.RESISTOR	2.2k	1/16W
R144	14113A033-103X	IVI.G.MEGIOTOM	1,0	,, , , , , ,	R505	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W
DIAE	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R506	NRSA63J-273X	M.G.RESISTOR	27k	1/16W
R145	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R507	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R146		M.G.RESISTOR	10k	1/16W	R508	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
R147	NRSA63J-103X	M.G.RESISTOR	1k	1/16W	R509	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R148	NRSA63J-102X	M.G.RESISTOR	560	1/16W	R510	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
R149	NRSA63J-561X NRSA63J-564X	M.G.RESISTOR	560k	1/16W	R511	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W
R150		M.G.RESISTOR	1M	1/16W	R512	NRSA63J-273X	M.G.RESISTOR	27k	1/16W
R151	NRSA63J-105X		1k	1/16W	''''	11,10,1000 2707			.,
R152		M.G.RESISTOR	10k	1/16W	R514	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R153		M.G.RESISTOR	10k	1/16W	R515	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R154	NRSA63J-103X	M.G.RESISTOR	100	17 1000	R516	NRSA63J-100X	M.G.RESISTOR	10	1/16W
545-	NIDCAGO L 100Y	M.C. DECISTOR	10k	1/16W	R517	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R155		M.G.RESISTOR	100	1/16W	R517	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R156		M.G.RESISTOR	15k	1/16W	R519	NRSA63F-472X	M.G.RESISTOR	4.7k	1/16W
R157		M.G.RESISTOR	10k	1/16W	R520	NRSA63F-472X	M.G.RESISTOR	4.7k	1/16W
R158		M.G.RESISTOR M.G.RESISTOR	2.2k	1/16W	R521	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R159		M.G.RESISTOR	390k	1/16W	R522	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
R160	NRSA63J-394X	IVI.G.NESISTON	JOOK	.,	1				

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Symbol No.	Part No.	Part Name	Description
	NDCAGOLATOV	M.G.RESISTOR	4.7k 1/16W
R523	NRSA63J-472X	M.G.RESISTOR M.G.RESISTOR	4.7k 1/16W 27k 1/16W
R524	NRSA63J-273X		
R525	NRSA63F-472X	M.G.RESISTOR	4.7k 1/16W
R526	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W
R527	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R528	NRSA63J-154X	M.G.RESISTOR	150k 1/16W
R529	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R530	NRSA63J-471X	M.G.RESISTOR	470 1/16W 10 1/16W
R531	NRSA63J-100X	M.G.RESISTOR	
R532	NRSA63J-222X NRSA63J-103X	M.G.RESISTOR	2.2k 1/16W 10k 1/16W
R533	NHSA63J-103X	M.G.RESISTOR	1710VV
R534	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R535	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R536	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R537	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R538	NRSA63F-823X	M.G.RESISTOR	82k 1/16W
R539	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R540	NRSA63F-222X	M.G.RESISTOR	2.2k 1/16W
R541	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R542	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R544	NRSA63J-100X	M.G.RESISTOR	10 1/16W
			·
R545	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R546	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W
R547	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R548	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R549	NRSA63J-103X	M.G.RESISTOR	10k 1/16VV
R550	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R551	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R552	NRSA63J-103X	M.G.RESISTOR	10k 1/16VV
R553	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R554	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R555	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R556	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R557	NRSA63J-224X	M.G.RESISTOR	220k 1/16W
R558	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R559	NRSA63J-223X	M.G.RESISTOR	22k
R561	NRSA63J-223X	M.G.RESISTOR M.G.RESISTOR	22k
R562	NRSA63J-103X	M.G.RESISTOR	3.3k 1/16W
R563 R564	NRSA63J-332X NRSA63J-471X	M.G.RESISTOR	470 1/16W
R565	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
11303	N113A033-103X	WI.G.HESISTOR	17704
R566	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R567	NRSA63F-222X	M.G.RESISTOR	2.2k 1/16W
R568	NRSA63J-224X	M.G.RESISTOR	220k 1/16W
R569	NRSA63F-222X	M.G.RESISTOR	2.2k 1/16W
R570	NRSA63F-332X	M.G.RESISTOR	3.3k 1/16W
R571	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W
R572	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R573	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R574	NRSA63J-154X	M.G.RESISTOR	150k 1/16W
R575	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
DEZO	MPCACOLATAY	M C DECISTOR	150k 1/16W
R576	NRSA63J-154X	M.G.RESISTOR	1 2 2
R577	NRSA63J-682X	M.G.RESISTOR	1
R578	NRSA63J-273X	M.G.RESISTOR M.G.RESISTOR	27k 1/16W 3.3k 1/16W
R579 R580	NRSA63J-332X NRSA63J-471X	M.G.RESISTOR	470 1/16W
R581	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R582	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R583	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R584	NRSA63J-332X	M.G.RESISTOR	47k 1/16W
R585	NRSA63F-822X	M.G.RESISTOR	8.2k 1/16W
R587	NRSA63F-472X	M.G.RESISTOR	4.7k 1/16W
R588	NRSA63F-472X	M.G.RESISTOR	4.7k 1/16W
R589	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R590	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R591	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W
R592	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W
R596	NRSA63J-154X	M.G.RESISTOR	150k 1/16W
R597	NRSA63J-105X	M.G.RESISTOR	1M 1/16W
R598	NRSA63F-331X	M.G.RESISTOR	330 1/16W
R599	NRSA63F-273X	M.G.RESISTOR	27k 1/16W
peon	NIDS A COLLADOV	M C DECICTOR	101 1/16/4/
R600 R601	NRSA63J-103X NRSA63F-682X	M.G.RESISTOR M.G.RESISTOR	10k 1/16W 6.8k 1/16W
		IVI.G.ITESISTON	0.0%

Symbol No.	Part No.	Part Name		Description
R603	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R604	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R605	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R606	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R607	NRSA63J-333X	M.G.RESISTOR	1k	1/16W
			470	1/16W
R608	NRSA63J-471X	M.G.RESISTOR	E .	
R609	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R610	NRSA63J-100X	M.G.RESISTOR	10	1/16W
VR501	NVP1415-103X	TRIM.RESISTOR	10k	SW FREQ VR
C1	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C2	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C3	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C4	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C5	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C6	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C7	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C8	NCB31HK-103X	CER.CAPACITOR	0.01	50V
			0.01	16V
C9 C10	NCF31CZ-104X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.1	50V
C11	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C12	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C12	NCS31HJ-101X	CER.CAPACITOR	100p	50V
		CER.CAPACITOR		50V
C14	NCS31HJ-101X		100p	
C15	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C16	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C17	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C18	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C19	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C20	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C21	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C22	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C23	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C24	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C25	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C26	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C27	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C28	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C29	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C30	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C31	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C32	NCS31HJ-101X	CER.CAPACITOR	100p	5 0 V
C33	NCS31HJ-101X	CER.CAPACITOR	100p	5 0 V
C34	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C35	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C36	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C37	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C38	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C39	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C40	NCS31HJ-101X	CER.CAPACITOR	100p	50V 50V
C41	NBE21EM-105X	TAN.CAPACITOR	1	25V
C42	NCF31CZ-104X	CER.CAPACITOR	0.1	167
C42	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C43	NCS31HJ-101X	CER.CAPACITOR	100p	50V 50V
				16V
C45	NCF31CZ-104X	CER.CAPACITOR	0.1	
C46	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C47	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C48	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C49	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C51	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C52	NCS31HJ-470X	CER.CAPACITOR	47p	50V
C53	NCS31HJ-270X	CER.CAPACITOR	27p	50V
C54	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C55	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C56	NCB31CK-473X	CER.CAPACITOR	0.047	167
C57	NCB31CK-823X	CER.CAPACITOR	0.082	1 6 V
C58	NCB31CK-823X	CER.CAPACITOR	0.082	16V
C59	NCB31HK-472X	CER.CAPACITOR	4700p	50V
C60	NCB31HK-472X	CER.CAPACITOR	4700p	50V
C61	NCB31EK-223X	CER.CAPACITOR	0.022	25V
COI	INCDO IEN-223A	CER.CAPACITOR	0.022	257
	1	1	1	

0.047

CER.CAPACITOR

NCB31CK-473X

Symbol No.	Part No.	Part Name	Des	cription	Symbol No.	Part No.	Part Name	Des	scription
C63	NCB31CK-273X	CER.CAPACITOR	0.027	16V	C141	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C64	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C142	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C65	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C143	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C66	NCB31CK-473X	CER.CAPACITOR	0.047	16V	C144	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C67	NCB31CK-473X	CER.CAPACITOR	0.047	16V	C145	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C68	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C146	NEH91AM-336X	E.CAPACITOR	33	10V
C69	NCF31CZ-104X	CER.CAPACITOR	0.1	16V				1	
C70	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C147	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C71	NCS31HJ-8R0X	CER.CAPACITOR	8p	50V	C148	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
٠, .			,	ł	C149	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C72	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C150	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C73	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C151	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C74	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C152	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C75	NCB31HK-102X	CER.CAPACITOR	1000p	50V	C153	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C76	NCB31HK-102X	CER.CAPACITOR	1000p	50V	C154	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C82	NCS31HJ-561X	CER.CAPACITOR	560p	50V	C155	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C83	QFHA1JJ-333	M.M.CAPACITOR	0.033	63V	C156	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C84	NCB31HK-392X	CER.CAPACITOR	3900p	50V	- [1			
C85	NEH91CM-106X	E.CAPACITOR	10	16V	C157	NBE41CM-106X	TAN.CAPACITOR	10	16V
C86	NEH91AM-336X	E.CAPACITOR	33	10V	C158	NCF31CZ-334X	CER.CAPACITOR	0.33	16V
000	112.101.111.0001				C159	NEH91CM-106X	E.CAPACITOR	10	16V
C87	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C160	NCF31CZ-334X	CER.CAPACITOR	0.33	16V
C88	NCB31HK-102X	CER.CAPACITOR	1000p	50V	C161	NEH91CM-106X	E.CAPACITOR	10	16V
C89	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C162	NCF31CZ-334X	CER.CAPACITOR	0.33	16V
C90	NCB31HK-102X	CER.CAPACITOR	1000p	50V	C163	NEH91CM-106X	E.CAPACITOR	10	16V
C91	NCS31HJ-470X	CER.CAPACITOR	47p	50V	C164	NEH91CM-106X	E.CAPACITOR	10	16V
C92	NCS31HJ-271X	CER.CAPACITOR	270p	50V	C165	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C93	NCB31CK-473X	CER.CAPACITOR	0.047	16V	C501	NEX11DM-476X	E.CAPACITOR	47	20V
C94	NEN21AM-106X	N.P.CAPACITOR	10	10V					
C95	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C504	NBE21EM-105X	TAN.CAPACITOR	1	25V
C95	NEH91AM-336X	E.CAPACITOR	33	10V	C505	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C90	INELIS I AIVI-330X	L.CAI ACITOI			C506	NCB31EK-822X	CER.CAPACITOR	8200p	25V
007	NDCC1 ANA 476V	TAN.CAPACITOR	47	10V	C507	NCB31EK-822X	CER.CAPACITOR	8200p	25V
C97	NBE51AM-476X NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C508	NBE21EM-105X	TAN.CAPACITOR	1	25V
C98	1	CER.CAPACITOR	0.1	16V	C509	NEX11DM-476X	E.CAPACITOR	47	20V
C99	NCF31CZ-104X	TAN.CAPACITOR	1	25V	C510	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C100	NBE21EM-105X	CER.CAPACITOR	0.1	16V	C511	NEX11DM-476X	E.CAPACITOR	47	20V
C101	NCF31CZ-104X	CER.CAPACITOR	1000p	50V	C512	NEX11AM-476X	E.CAPACITOR	47	10V
C102	NCB31HK-102X NCS31HJ-330X	CER.CAPACITOR	33p	50V	C513	NCF31CZ-104X	CER, CAPACITOR	0.1	16V
C103	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	55,5				
C104	1	CER.CAPACITOR	0.1	16V	C514	NEX11AM-476X	E.CAPACITOR	47	10V
C105	NCF31CZ-104X	E.CAPACITOR	33	10V	C515	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C106	NEH91AM-336X	E.CAPACITOR	33	100	C516	NCB31HK-102X	CER.CAPACITOR	1000p	50V
	11050407.4041/	CER.CAPACITOR	0.1	- 16V	C517	NCB31EK-822X	CER.CAPACITOR	8200p	25V
C107	NCF31CZ-104X	1 '	1	25V	C518	NBE21EM-105X	TAN.CAPACITOR	1	25V
C108	NBE21EM-105X	TAN.CAPACITOR	1000p	50V	C519	NEX11AM-476X	E.CAPACITOR	47	10V
C109	NCB31HK-102X	CER.CAPACITOR	33p	50V	C520	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C110	NCS31HJ-330X	CER.CAPACITOR	0.1	16V	C520	NEX11AM-476X	E.CAPACITOR	47	10V
C111	NCF31CZ-104X	CER.CAPACITOR	100p	50V	C524	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C112	NCS31HJ-101X	CER.CAPACITOR	100p	50V	C525	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C113	NCS31HJ-101X	CER.CAPACITOR CER.CAPACITOR	0.1	16V	0020	TOBOTTIK TOOK	02/110/11/12/1	1	
C114	NCF31CZ-104X	TAN.CAPACITOR	10	16V	C526	NBE21EM-105X	TAN.CAPACITOR	1	25V
C115	NBE41CM-106X	CER.CAPACITOR	0.1	16V	C527	NBE21EM-105X	TAN.CAPACITOR	1	25V
C116	NCF31CZ-104X	CEN.CAFACITOR	0.1	101	C528	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
	NODO4EK 1EOV	CER.CAPACITOR	0.015	25V	C529	NEX11DM-476X	E.CAPACITOR	47	20V
C117	NCB31EK-153X	CER.CAPACITOR	0.013	16V	C530	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C118	NCB31CK-273X	CER.CAPACITOR	0.027	16V	C531	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C119	NCF31CZ-104X	N.P.CAPACITOR	0.12	50V	C532	NBE21EM-105X	TAN.CAPACITOR	1	25V
C120	NEN21HM-224X	N.P.CAPACITOR	0.22	50V	C533	NEX11DM-476X	E.CAPACITOR	47	20V
C121	NEN21HM-224X	N.P.CAPACITOR	0.22	50V 50V	C534	NCB31HK-102X	CER.CAPACITOR	10000	50V
C122	NEN21HM-224X		0.022	25V	C535	NCR21CK-563X	CER.CAPACITOR	0.056	16V
C123	NCB31EK-223X	CER.CAPACITOR CER.CAPACITOR	0.022	25V	0000	140/12/10/1000/	0211.07 1171011 011		
C124	NCB31EK-223X				C536	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C125	NCB31EK-223X	CER.CAPACITOR	0.022	25V 25V	C537	NEX11DM-476X	E.CAPACITOR	47	20V
C126	NCF31EZ-104X	CER.CAPACITOR	0.1	257	C537		E.CAPACITOR	47	20V
١.		OFF CARACITOS	0.1	101/		NEX11DM-476X	CER.CAPACITOR	0.1	16V
C127	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C540	NCF31CZ-104X	TAN.CAPACITOR	1	25V
C128	NEH91AM-336X	E.CAPACITOR	33	10V	C541	NBE21EM-105X	E.CAPACITOR	47	6.3V
C129	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C542	NEX10JM-476X		0.1	16V
C130	NEH91CM-476X	E.CAPACITOR	47	16V	C543	NCF31CZ-104X	CER.CAPACITOR	47	6.3V
C131	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C544	NEX10JM-476X	E.CAPACITOR	82000	25V
C132	NEH91EM-336X	E.CAPACITOR	33	25V	C545	NCB31EK-822X	CER.CAPACITOR		25V 25V
C133	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C546	NCB31EK-822X	CER.CAPACITOR	8200p	257
C134	NEH91EM-336X	E.CAPACITOR	33	25V		NDECTED (TEXT)	TAN CADACITOS	1	25V
C135	NCB31HK-102X	CER.CAPACITOR	1000p	50V	C547	NBE21EM-105X	TAN.CAPACITOR	1	
C136	NEH91CM-106X	E.CAPACITOR	10	16V	C548	QETC1JM-106Z	E.CAPACITOR	10	63V
ł			1		C549	NCF21HZ-104X	CER.CAPACITOR	0.1	50V
C137	NCF31CZ-334X	CER.CAPACITOR	0.33	16V	C550	QETC1JM-106Z	E.CAPACITOR	10	63V
		E.CAPACITOR	10	16V	C551	NCS31HJ-471X	CER.CAPACITOR	470p	50V
	NEH91CM-106X	E.OAI AOITOIT							
C138 C139	NCF31CZ-334X	CER.CAPACITOR	0.33	16V	C552	NCS31HJ-471X	CER.CAPACITOR CER.CAPACITOR	470p 0.1	50V 50V

Symbol No.	Part No.	Part Name	Description
	NICEOTHS 104V	CER CARACITOR	0.1 50V
C554	NCF21HZ-104X	CER.CAPACITOR	
C555	NCF31CZ-104X	CER.CAPACITOR	0.1 16V 8200p 25V
C556	NCB31EK-822X	CER.CAPACITOR	8200p 25V
0557	NIDEO1EM 10EV	TANL CADACITOR	1 25V
C557	NBE21EM-105X	TAN.CAPACITOR	0.1 50V
C560	NCF21HZ-104X	CER.CAPACITOR	47 6.3V
C561	NEX10JM-476X	E.CAPACITOR CER.CAPACITOR	0.1 16V
C562	NCF31CZ-104X	E.CAPACITOR	47 6.3V
C563 C564	NEX10JM-476X NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C565	NEH91CM-106X	E.CAPACITOR	10 16V
C566	NCF31CZ-334X	CER.CAPACITOR	0.33 16V
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L1	NQL114K-100X	COIL	10uH
L2	NQR0181-001X	COIL	
L3	NQL114K-100X	COIL	10uH
L4	NQL114K-100X	COIL	10uH
L5	NQL114K-100X	COIL	10uH
L6	NQL114K-100X	COIL	10uH
L7	NQL114K-100X	COIL	10uH
L8	NQL114K-100X	COIL	10uH
L9	NQL114K-100X	COIL	10uH
L10	NQL114K-100X	COIL	10uH
111	NOI 114K 100V	COII	10
L11 L12	NQL114K-100X NQL114K-100X	COIL	10uH 10uH
	NQL26CK-330X	COIL	33uH
L501 L502	NQL25CM-470X	COIL	47uH
L502	NQL23CM-330X	COIL	33uH
L504	NQL25CM-330X	COIL	33uH
L505	NQL23CM-330X	COIL	33uH
L506	NQL24CN-470X	COIL	47uH
L507	NQL23CM-330X	COIL	33uH
L508	NQL24CN-470X	COIL	47uH
L509	NQL24CN-470X	COIL	47uH
L510	NQL25CM-470X	COIL	47uH
L511	NQL25CM-330X	COIL	33uH
L512	SSV2810-330V	COIL	33uH
L516	NQL25CM-330X	COIL	33uH
L517	SSV2810-330V	COIL	33uH 33uH
L520	SSV2810-330V	COIL	Soun
X1	PGZ02200-002	CRYSTAL	12MHz
ĺ			
	0400057400	THERMICTOR	
TH1	QAD0057-1R0	THERMISTOR	1
]			
S1	SSV2664	SLIDE SWITCH	PALINTSC
S2	SSV2664	SLIDE SWITCH	TEST MODE ON/OFF
1			
CN1	SCV2596-030W	CONNECTOR	30PIN
CN2	PGZ02149-102Z	CONNECTOR	2PIN
CN3	PGZ01932-010Z	CONNECTOR	10PIN
CN4	PGZ01932-022Z	CONNECTOR	22PIN
CN5	SSV2637-L02	CONNECTOR	2PIN
CN6	SSV2637-L03	CONNECTOR	3PIN
CN7	SSV2637-L08	CONNECTOR	8PIN
CN8	PGZ01932-011Z	CONNECTOR	11PIN
CN9 CN10	PGZ01932-010Z	CONNECTOR	10PIN I8PIN
I CINTU	PGZ02149-008Z	CONNECTOR	JOI IIN
CN11	PGZ01932-024Z	CONNECTOR	24PIN
CN12	SCV2596-030W	CONNECTOR	30PIN
CN13	SCV2596-030W	CONNECTOR	30PIN
CN15	SSV2637-L07	CONNECTOR	7PIN
TP	55/1000001	TEST POINT	TP1_TP507
'"	SSV1096-001	TEST POINT	TP1-TP507
∆CP501	ICP-S1.0TN	ICP	
∆CP502	ICP-S0.5TN	ICP	
∆CP503	ICP-S1.0TN	ICP	
∆CP504	ICP-S0.5TN	ICP	
∆CP505	ICP-S1.0TN	ICP	1

Symbol No.	Part No.	Part Name	Description
∆ CP506	ICP-S1.0TN	ICP	
	ICP-S0.5TN	ICP	•
K1	PGZ00627Z	FERRATE BEADS	
K2 K3	PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS	
K4	PGZ00627Z	FERRATE BEADS	
"		/ -	
T501	NQR0183-001X	TRANS	
1301	110105-0017	ITTANIO	
тв	PGZ02228	EARTH LUG	TB1-TB5
'B	FG202226	EANTH LOG	161-165
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6.6 PRE/REC BOARD ASSEMBLY PARTS LIST 0.6 SLK2048-01-01A

Symbol	Part No.	Part Name	Description
No.	AN3730FA	I.C.(M)	MATSUSHITA
IC101 IC201	AN3730FA	I.C.(M)	MATSUSHITA
	AN77L03M-X	I.C.(M)	MATSUSHITA
IC202	D\$90C032TM-X	I.C.(M)	NATIONAL SEMICO
IC203	TC74HC4040AF-X	I.C.(M)	TOSHIBA
IC204	TC74HC4040AF-X	1.C.(M)	TOSHIBA
IC205	1C/4VHC153F-X	1.C.(IVI)	TOOTHUR
Q101	XN4504-W	TRANSISTOR	MATSUSHITA
Q102	2SA1462/3-4/-X	TRANSISTOR	NEC
Q103	2SC3937-X	TRANSISTOR	MATSUSHITA
Q104	XN4504-W	TRANSISTOR	MATSUSHITA
Q105	2SA1462/3-4/-X	TRANSISTOR	NEC
Q106	2SC3937-X	TRANSISTOR	MATSUSHITA MATSUSHITA
Q201	XN4504-W	TRANSISTOR TRANSISTOR	NEC
Q202	2SA1462/3-4/-X 2SC3937-X	TRANSISTOR	MATSUSHITA
Q203	XN4504-W	TRANSISTOR	MATSUSHITA
Q204	XIV4504-VV	MANOISTON	
Q205	2SA1462/3-4/-X	TRANSISTOR	NEC
Q206	2SC3937-X	TRANSISTOR	MATSUSHITA
Q209	2SA1577/QR/-X	TRANSISTOR	ROHM
Q210	DTC114EUA-X	TRANSISTOR	ROHM
Q301	2SK621-X	FET	MATSUSHITA
0302	2SK621-X	FET	MATSUSHITA
Q303	2SA1037AK/QR/-X	TRANSISTOR	ROHM
0304	2SA1037AK/QR/-X	TRANSISTOR	ROHM
0305	2SC3735/4-5/-X	TRANSISTOR	NEC
0306	2SC3735/4-5/-X	TRANSISTOR	NEC
0307	2SC3735/4-5/-X	TRANSISTOR	NEC
Q308	2SC3735/4-5/-X	TRANSISTOR	NEC
	110010010001	NA O DECISION	1/16\A/
R101	NRSA63J-202X	M.G.RESISTOR	2k 1/16W 6.8k 1/16W
R102	NRSA63J-682X	M.G.RESISTOR	1
R103	NRSA63J-182X	M.G.RESISTOR	11.8k 1/16W 330 1/16W
R104	NRSA63J-331X	M.G.RESISTOR M.G.RESISTOR	47 1/16W
R105	NRSA63J-470X NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R106	NRSA63J-331X	M.G.RESISTOR	330 1/16W
R107 R108	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R109	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R110	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
			1 51- 1/16\\
R111	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W 15k 1/16W
R112	NRSA63J-153X	M.G.RESISTOR M.G.RESISTOR	15k 1/16W 680 1/16W
R113	NRSA63J-681X		680 1/16W
R116	NRSA63J-681X	M.G.RESISTOR M.G.RESISTOR	1.5k 1/16W
R117	NRSA63J-152X NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R118 R119	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R120	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R121	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R122	NRSA63J-331X	M.G.RESISTOR	330 1/16W
	NDCACC LASSIC	M C DECICEO	1k 1/16W
R123	NRSA63J-102X	M.G.RESISTOR	1k 1/16W 1/16W
R126	NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	2.7k 1/16W
R127	NRSA63J-272X	M.G.RESISTOR	22k 1/16W
R128	NRSA63J-223X NRSA63J-100X	M.G.RESISTOR	10 1/16W
R129	NRSA63J-100X NRSA63J-100X	M.G.RESISTOR	10 1/16W
R130 R131	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R132	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R201	NRSA63J-202X	M.G.RESISTOR	2k 1/16W
R202	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W
	1,100,100,1100,1	M O DECISION	1.8k 1/16W
R203	NRSA63J-182X	M.G.RESISTOR M.G.RESISTOR	1.8k 1/16W 330 1/16W
R204	NRSA63J-331X	M.G.RESISTOR	47 1/16W
R205	NRSA63J-470X NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R206	NRSA63J-102X NRSA63J-331X	M.G.RESISTOR	330 1/16W
R207 R208	NRSA63J-331A	M.G.RESISTOR	1k 1/16W
R209	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R210	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R211	NRSA63J-152X	M.G.RESISTOR	1.5k 1/16W
R212	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
DOME	NIDOAGO LEGAV	M C RESISTOR	680 1/16W
R213 R216	NRSA63J-681X NRSA63J-681X	M.G.RESISTOR M.G.RESISTOR	680 1/16W
11210	14110/4000-0017	1.70.1120/01011	1

Symbol No.	Part No.	Part Name	Descript	ion
R217 R218 R219 R220 R221 R222 R223 R226	NRSA63J-152X NRSA63J-153X NRSA63J-152X NRSA63J-152X NRSA63J-102X NRSA63J-331X NRSA63J-102X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	15k 1.5k 1.5k 1k 330 1k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R227 R228 R229 R230 R231 R232 R235 R238 R240 R241	NRSA63J-272X NRSA63J-223X NRSA63J-100X NRSA63J-100X NRSA63J-221X NRSA63J-471X NRSA63J-221X NRSA63J-101X NRSA63J-332X NRSA63J-152X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	22k 10 10 220 470 220 100 S3.3k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R242 R244 R245 R246 R247 R248 R249 R250 R251 R252	NRSA63J-0R0X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 100 100 100 100 100 100 100	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R253 R254 R255 R256 R257 R258 R259 R260 R261 R262	NRSA63J-0R0X NRSA63J-0R0X NRSA63J-100X NRSA63J-100X NRSA63J-100X NRSA63J-100X NRSA63J-100X NRSA63J-103X NRSA63J-102X NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	0 10 10 10 10 10 10 10k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R263 R264 R265 R266 R267 R268 R270 R271 R274 R275	NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1k 1k 1k 1k 1k 1k 1k 1k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R278 R279 R282 R283 R284 R285 R286 R287 R301 R302	NRSA63J-0R0X NRSA63J-100X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-223X NRSA63J-223X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	0 10 10k 10k 10k 10k 10k 10k 22k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R303 R304 R305 R306 R307 R308 R309 R310 R311 R312	NRSA63J-122X NRSA63J-122X NRSA63J-150X NRSA63J-150X NRSA63J-272X NRSA63J-272X NRSA63J-560X NRSA63J-560X NRSA63J-560X NRSA63J-560X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1.2k 15 15 2.7k 2.7k 56 56 56	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R313 R314 R315 R316 R317	NRSA63J-272X NRSA63J-272X NRSA63J-471X NRSA63J-471X NRSA63J-390X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	2.7k 470 470	1/16W 1/16W 1/16W 1/16W 1/16W

Symbol No.	Part No.	Part Name	Description
R318	NRSA63J-390X	M.G.RESISTOR	39 1/16W
R319	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R320	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R323	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R324	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
11324	(410A033-103X	Wi.d. NEOIOTON	1,7077
R325	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
C101	NCB31HK-103X	CER.CAPACITOR	0.01 50V 0.022 25V
C102 C103	NCB31EK-223X NCB31HK-152X	CER.CAPACITOR CER.CAPACITOR	1500p 50V
C103	NDC31HJ-3R0X	CER.CAPACITOR	3p 50V
C104	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C106	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C107	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C108	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C109	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C110	NBE21AM-106X	TAN.CAPACITOR	10 10V
C111	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C112	NCS31HJ-151X	CER.CAPACITOR	150p 50V
C113	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C114	NBE21EM-105X	TAN.CAPACITOR	1 25V
C115	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C116	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C117	NDC31HJ-330X	CER.CAPACITOR	33p 50V
C118	NBE21AM-106X	TAN.CAPACITOR	10 10V
C119	NCB31HK-152X	CER.CAPACITOR	1500p 50V 10 10V
C120	NBE21AM-106X	TAN.CAPACITOR	
C121	NCB31HK-152X	CER.CAPACITOR	1500p 50V
C122	NDC31HJ-330X	CER.CAPACITOR	33p 50V
C123 C124	NCB31HK-103X	CER.CAPACITOR	0.01 50V 1 25V
C124	NBE21EM-105X NCF31CZ-104X	TAN.CAPACITOR CER.CAPACITOR	0.1 16V
C125	NCS31HJ-151X	CER.CAPACITOR	150p 50V
C127	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C128	NBE41CM-106X	TAN.CAPACITOR	10 16V
C129	NBE21AM-106X	TAN.CAPACITOR	10 10V
C130	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C131	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C132	NCB31HK-122X	CER.CAPACITOR	1200p 50V
C133	NCB31HK-122X	CER.CAPACITOR	1200p 50V
C134	NCF31CZ-104X	CER.CAPACITOR	0.1 16V 680p 50V
C135 C136	NCS31HJ-681X NCS31HJ-470X	CER.CAPACITOR CER.CAPACITOR	680p 50V 47p 50V
C136	NBE21AM-106X	TAN.CAPACITOR	10 10V
C137	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C139	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C140	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C141	NBE41CM-106X	TAN.CAPACITOR	10 16V
C201	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C202	NCB31EK-223X	CER.CAPACITOR	0.022 25V
C203	NCB31HK-152X	CER.CAPACITOR	1500p 50V
C204 C205	NDC31HJ-3R0X	CER.CAPACITOR	3p 50V 1000p 50V
C205	NCB31HK-102X NCB31HK-102X	CER.CAPACITOR	1000p 50V
C207	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C208	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C209	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C210	NBE21AM-106X	TAN.CAPACITOR	10 10V
C211	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C212	NCS31HJ-151X	CER.CAPACITOR	150p 50V
C213	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C214	NBE21EM-105X	TAN.CAPACITOR	1 25V 0.1 16V
C215 C216	NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.01 50V
C216	NCB31HK-103X NDC31HJ-330X	CER.CAPACITOR	33p 50V
C217	NBE21AM-106X	TAN,CAPACITOR	10 10V
C219	NCB31HK-152X	CER.CAPACITOR	1500p 50V
C220	NBE21AM-106X	TAN.CAPACITOR	10 10V
C221	NCB31HK-152X	CER.CAPACITOR	1500p 50V
C222	NDC31HJ-330X	CER.CAPACITOR	33p 50V
C223	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C224	NBE21EM-105X	TAN.CAPACITOR	1 25V

Symbol No.	Part No.	Part Name	Description
C225	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C226	NCS31HJ-151X	CER.CAPACITOR	150p 50V
C227	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C228	NBE41CM-106X	TAN.CAPACITOR	10 16V
C229	NBE21AM-106X	TAN.CAPACITOR	10 10V
C230	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C231	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C232	NCB31HK-122X	CER.CAPACITOR	1200p 50V
C233	NCB31HK-122X	CER.CAPACITOR	1200p 50V
C234	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C235	NCS31HJ-681X	CER.CAPACITOR	680p 50V
C236	NCS31HJ-470X	CER.CAPACITOR	47p 50V
C237	NBE21AM-106X	TAN.CAPACITOR	10 10V
C238	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C239	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C240	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C241	NBE41CM-106X	TAN.CAPACITOR	10 16V
C244	NBE41CM-106X	TAN.CAPACITOR	10 16V
C245	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C246	NBE21AM-106X	TAN.CAPACITOR	10 10V
C247	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C248	NBE41CM-106X	TAN.CAPACITOR	10 16V
C249	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C250	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C251	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C252	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C253	NDC31HG-101X	CER.CAPACITOR	100p 50V
C254	NDC31HG-101X	CER.CAPACITOR	100p 50V
C255	NDC31HG-101X	CER.CAPACITOR	100p 50V
C256	NCS31HJ-470X	CER.CAPACITOR	47p 50V
C301	NCS31HJ-221X	CER.CAPACITOR	220p 50V
C302	NCS31HJ-221X	CER.CAPACITOR	220p 50V
C303	NCS31HJ-121X	CER.CAPACITOR	120p 50V
C304	NCS31HJ-121X	CER.CAPACITOR	120p 50V
C305	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C306	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C307	NDC31HG-100X	CER.CAPACITOR	10p 50V
C308	NDC31HG-100X	CER.CAPACITOR	10p 50V
C309	NDC31HG-100X	CER.CAPACITOR	10p 50V
C310	NDC31HG-100X	CER.CAPACITOR	10p
C311	NDC31HG-100X	CER.CAPACITOR	10p 50V
C312	NDC31HG-100X	CER.CAPACITOR	10p 50V
C315	NBE41VM-225X	TAN.CAPACITOR	2.2 35V
C316	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C320	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C321	NDC31HJ-3R0X	CER.CAPACITOR	3p 50V
C322	NDC31HJ-3R0X	CER.CAPACITOR	3p 50V
C323	NDC31HJ-3R0X	CER.CAPACITOR	3p 50V
C324	NDC31HJ-3R0X	CER.CAPACITOR	3p 50V
1.404	NO. 104 LOSOY	COIL	122
L101	NQL124J-220X	COIL	22uH
L102	NQL124M-1R0X	COIL	1uH
L103	NQL124J-220X NQL124M-1R0X	COIL	22uH 1uH
L104			1
L201	NQL124J-220X NQL124M-1R0X	COIL	22uH 1uH
L202 L203	NQL124M-1RUX NQL124J-220X	COIL	122uH
L203	NQL124J-220X NQL124M-1R0X	COIL	1220n 11uH
L301	NQL124M-1R0X	COIL	1uH
L302	NQL124M-1R0X	COIL	1uH
L303	NQL124M-1R0X	COIL	 1uH
L304	NQL124M-1R0X	COIL	1uH
CN201	PGZ01932-011Z	CONNECTOR	11PIN
	SCV2596-028W	CONNECTOR	28PIN
	PGZ01932-017Z	CONNECTOR	17PIN
TO	SSV1000 004	TECT DOINT	TD101 210
TP	SSV1096-001	TEST POINT	TP101-210
K101	PGZ00627Z	FERRATE BEADS	

6.7 OPERATION BOARD ASSEMBLY PARTS LIST 0 7 SLK2048-02-00B 0 7

Symbol	Part No.	Part Name	Description	F
Symbol No. K102 K103 K201 K202 K203 K204 K205 K301 K303 K304 K305 K306	Part No. PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00823-121AZ PGZ01823-121AZ PGZ01823-121AZ PGZ01823-121AZ	Part Name FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS EMI FILTER EMI FILTER EMI FILTER EMI FILTER	Description	

ļ	Symbol No.	Part No.	Part Name	Description
	IC901 IC902 IC903	M66312FP-X TC4S584F-X TC4S584F-X	I.C.(M) I.C.(M) I.C.(M)	MITSUBISHI TOSHIBA TOSHIBA
	D901 D902 D903 D904 D905 D906	SLM-13VWF-X SLM-13VWF-X SLM-13VWF-X SLM-13VWF-X SLM-13VWF-X DAN202U-X	L.E.D. L.E.D. L.E.D. L.E.D. L.E.D. DIODE	ROHM
	R901 R902 R903 R904 R905 R906 R907 R908 R909 R910	NRSA63J-332X NRSA63J-332X NRSA63J-472X NRSA63J-223X NRSA63J-224X NRSA63J-224X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	3.3k 1/16W 4.7k 1/16W 22k 1/16W 220k 1/16W 220k 1/16W 220k 1/16W 10k 1/16W 10k 1/16W 10k 1/16W
	R911 R912 R913 R914 R915 R916 R917	NRSA63J-224X NRSA63J-102X NRSA63J-561X NRSA63J-561X NRSA63J-561X NRSA63J-561X NRSA63J-561X NRSA63J-361X NRSA63J-334X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	220k 1/16W 1k 1/16W 560 1/16W 560 1/16W 560 1/16W 560 1/16W 560 1/16W 330k 1/16W
	C901 C902 C903 C904 C905	NBE21EM-105X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X	TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	1 25V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V
	L901	NQL114K-100X	COIL	10uH
	S901 S902 S903 S904 S905 S906	PGZ01249 PGZ01249 PGZ01249 PGZ01249 PGZ01249 PGZ01249 NSW0052-001X	TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH PUSH SW	STOP REW FF PLAY EJECT OPERATE
	CN901	PGZ01932-010Z	CONNECTOR	10PIN
		1	<u> </u>	

6.8 LI-BATT BOARD ASSEMBLY PARTS LIST 08 SLK2048-03-00B

02.00.000					
Symbol No.	Part No.	Part Name	Description		
	SSV2637-L02 YQ44289-1-1 YQ44288-1-1	CONNECTOR CONNECTOR CONNECTOR	2PIN 1PIN 1PIN		

6.9 IO JUNCTION BOARD ASSEMBLY PARTS LIST 10 SLK1048-01-00C

Symbol No.	Part No.	Part Name	Description
D301 D302 D303 D304	EA60QC04 RD9.1EW-T1 RD9.1EW-T1 RD9.1EW-T1	DIODE ZENER DIODE ZENER DIODE ZENER DIODE	NIHON INTER NEC NEC NEC
LD301	SLR-55VC3F	LED	
LH301	PQ43191	LED HOLDER	FOR LD301
C301 C306 C307	QETB1EM-478 QCZ0208-103 QCZ0208-103	E.CAPACITOR CER.CAPACITOR CER.CAPACITOR	4700 25V 0.01 0.01
S301 S302 S303	QSW0452-001 QSW0452-001 QSW0452-001	SLIDE SW SLIDE SW SLIDE SW	AUD2 +48V TALLY ON/OFF AUD1 +48V
CN302 CN303 CN304 CN305 CN306 CN307 CN308 CN309	PU60251-4 SSV1790-S02 PU59555-2 SSV1790-S02 PU59973-10 PU599555-8 SSV1209-S02 PU59555-2 PU59555-2 PU59555-2	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR	4PIN 2PIN 2PIN 2PIN 10PIN 8PIN 2PIN 2PIN 2PIN 2PIN 2PIN
ДБСЗО1 ДБСЗО2 ДБСЗО3 ДБСЗО4 ДБСЗО4 ДБСЗО5 ДБСЗО6 ДБСЗО7 ДБСЗО8	SSV2497-001Z SSV2497-001Z SSV2497-001Z SSV2497-001Z SSV2497-001Z SSV2497-001Z SSV2497-001Z SSV2497-001Z	FUSE HOLDER FUSE HOLDER FUSE HOLDER FUSE HOLDER FUSE HOLDER FUSE HOLDER FUSE HOLDER FUSE HOLDER	
JK301 JK302	QNS0036-001 QNS0037-001	3.5 JACK 3.5 JACK	3.5 3.5
ТВ	SQMX002-001Z	TERMINAL	TB301-B304

6.11 CONNECTOR BOARD ASSEMBLY PARTS LIST 12 SLK1048-03-00B

Symbol No.	Part No.	Part Name		Description
D101 D102 D103 D104 D105	RD9.1EW-T1 RD9.1EW-T1 RD9.1EW-T1 RD9.1EW-T1 RD9.1EW-T1	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE	NEC NEC NEC NEC NEC	
VR101	QVQ0029-B53	VAL.RESISTOR	5k	TRACKING
CN101 CN102		CONNECTOR CONNECTOR	8PIN 3PIN	
JK101 JK102	SCV2798-001 PGZ02430	2P RCA JACK BNC JACK		

Symbol No.	Part No.	Part Name	Description
S401	PGZ00597	SWITCH	POWER SWITCH
вкт	PRD44891	BRACKET	FOR POWER SW
	SSV1790-S02 SCV1978-L07	CONNECTOR CONNECTOR	2PIN 7PIN
TP	PU54983	TEST POINT	TP401-TP406

6.13 DC OUT BOARD ASSEMBLY PARTS LIST 14 SLK1048-05-00B

Symbol No.	Part No.	Part Name	Description
	-		

6.10 50P CONN. BOARD ASSEMBLY PARTS LIST 111 SLK1048-02-00B

Symbol No.	Part No.	Part Name		Description
D	RD9.1EW-T1	ZENER DIODE	NEC	D201-D222
R201 R202	QRE141J-102Y QRE141J-103Y	CAR.RESISTOR CAR.RESISTOR	1k 10k	1/4W 1/4W
CN201 CN202 CN203 CN204	SCV1978-L08 SSV1209-L02	CONNECTOR CONNECTOR CONNECTOR CONNECTOR	20PIN 8PIN 2PIN 50PIN	
SPC	PRD30030-146	SPACER		

6.14 MECHA. I/F BOARD ASSEMBLY PARTS LIST 15 SLK2045-01B

Symbol No.	Part No.	Part Name	Description
CN1	SCV2596-030W	CONNECTOR	30PIN
CN2	SCV1770-003	CONNECTOR	3PIN
CN3	SSV2637-L02	CONNECTOR	2PIN
CN4	SSV2637-L03	CONNECTOR	3PIN
CN5	SSV2637-L03	CONNECTOR	3PIN
CN6	SSV2637-L04	CONNECTOR	4PIN
CN7	SCV1770-003	CONNECTOR	3PIN
CN8	SSV2637-L02	CONNECTOR	2PIN
CN9	SSV2637-L05	CONNECTOR	5PIN
CN10	SCV1770-004	CONNECTOR	4PIN
CN11	SCV1770-002	CONNECTOR	2PIN
CN12	SSV2637-L02	CONNECTOR	2PIN

6.15 DRUM MDA BOARD ASSEMBLY PARTS LIST 116 SLK2036-00A 116 ...

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N N	0.	Part No.	Part Name	Description
	2	BA10393F-X BA10358F-X BA6441FP-X	I.C.(M) I.C.(M) I.C.(M)	ROHM ROHM ROHM
Q Q		2SC4081/QRS/-X 2SA1576A/QRS/-X	TRANSISTOR TRANSISTOR	ROHM ROHM
D	2	MA3020-X	ZENER DIODE	MATSUSHITA
R R R	2 3 4 5 6 7 9	NRSA63J-103X NRSA63J-0R0X NRSA63J-473X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-474X NRSA63J-102X NRSA63J-822X NRSA63J-822X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 1/16W 0 1/16W 47k 1/16W 10k 1/16W 56k 1/16W 470k 1/16W 1k 1/16W 8.2k 1/16W 10k 1/16W
R R R R F F	13 114 115 116	NRSA63J-103X NRSA63J-222X NRSA63J-105X NRSA63J-563X NRSA63J-332X NRSA63J-332X NRSA63J-103X NRSA63J-101X NRSA63J-103X NRSA63J-103X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 1/16W 2.2k 1/16W 1/16W 56k 1/16W 270k 1/16W 10k 1/16W 100 1/16W 100 1/16W 100 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 100k 1/16W
F F F	R22 R23 R24 R25 R26 R27 R28	NRSA63J-103X NRSA63J-102X NRSA63J-562X NRSA63J-103X NRSA63J-121X NRSA63J-121X NRSA63J-121X NRS144J-R68X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 1/16W 1k 1/16W 5.6k 1/16W 10k 1/16W 120 1/16W 120 1/16W 0.68 1/4W
	C1 C4 C5 C6 C7 C8 C9 C10 C11	NCB31EK-223X NCF31CZ-104X NEH71EM-476X NCB31EK-223X NCF31CZ-104X NCF31EZ-473X NCB31HK-102X NCS31HJ-471X NCF31CZ-104X NBE41CM-106X	CER.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.022 25V 0.1 16V 47 25V 0.022 25V 0.1 16V 0.047 25V 1000p 50V 470p 50V 0.1 16V
	C13 C14 C15 C16 C17 C18 C19 C20 C21	NBE21EM-105X NCB31HK-103X NCB31HK-103X NEN21HM-224X NEN21HM-224X NEN21HM-224X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X	TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR N.P.CAPACITOR N.P.CAPACITOR N.P.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	1 25V 0.01 50V 0.01 50V 0.22 50V 0.22 50V 0.22 50V 0.1 16V 0.1 16V
	L1	NQL124J-470X	COIL	47uH
	CN1 CN2	PGZ01932-010Z PGZ01932-015Z	CONNECTOR CONNECTOR	10PIN 15PIN
	K1 K2 K3	PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS	
1		1		

6.16 A/C HEAD BOARD ASSEMBLY PARTS LIST 17 SLK2046-05-00B

OLINEO-10 00 00B			
Symbol No.	Part No.	Part Name	Description
CN501	SCV1978-L10	CONNECTOR	10PIN
	k 		

6.17 MODE SENSE BOARD ASSEMBLY PARTS LIST 18 SLK2046-01-00B

3LK2040-01-00B				
Symbol No.	Part No.	Part Name	Description	
	SCV1978-S05	CONNECTOR	5PIN	

6.18 AL SENSE BOARD ASSEMBLY PARTS LIST 19 SLK2046-02-00B

-	-142040 02 001		
Symbol No.	Part No.	Part Name	Description
PC101	ON1023	PHOTO COUPLER	
CN101	SCV1978-L03	CONNECTOR	3PIN

6.19 TU REEL FG BOARD ASSEMBLY PARTS LIST 20 SLK2046-03-00B

Symbol No.	Part No.	Part Name	Description
PC201	TLP853	PHOTO COUPLER	TOSHIBA
CN201	SCV1978-L03	CONNECTOR	3PIN
	:		

6.20 SP REEL FG BOARD ASSEMBLY PARTS LIST 21 SLK2046-04-00B

Symbol No.	Part No.	Part Name	Description
PC301	TLP853	PHOTO COUPLER	TOSHIBA
CN301	SCV1978-L03	CONNECTOR	3PIN
			• •

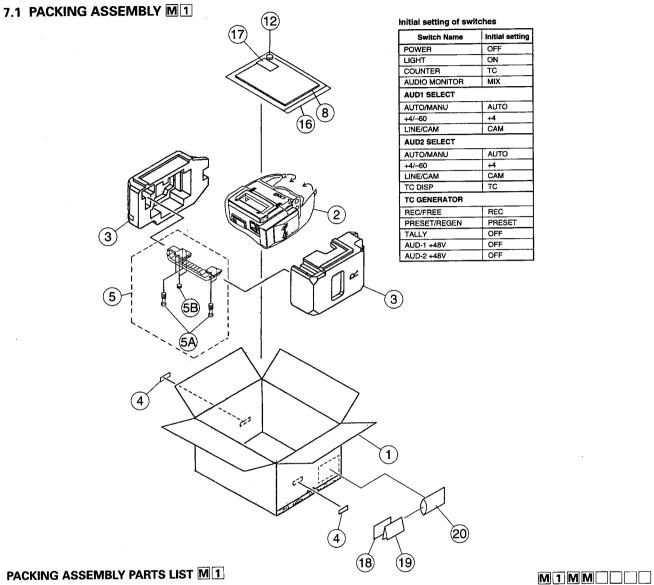
6.21 BEGIN SENSE BOARD ASSEMBLY PARTS LIST 22 SLK2047-01-00A

Symbol No.	Part No.	Part Name	Description
Q101	PN268-NC/P1/	TRANSISTOR	MATSUSHITA
CN101	SCV1978-L03	CONNECTOR	3PIN
		:	

6.22 END SENSE BOARD ASSEMBLY PARTS LIST 23 SLK2047-02-00A 23

OLINEO47-02-00A				
Symbol No.	Part No.	Part Name	Description	
Q201	PN268-NC/P1/	TRANSISTOR	MATSUSHITA	
CN201	SCV1978-L03	CONNECTOR	ЗРІМ	

SECTION 7 PACKING



Symbol No.	Part No.	Part Name	Description
1	_	CARTON BOX	
2	_	PLASTIC BAG	
3	_	CUSHION	
4	_	BLANK LABEL	
5	PGS30196A-02	HANDLE ASSEMBLY	
5A	SC43390-001	SCREW	
5B	SC45291	CAP	
∆ 8	SL96071	INSTRUCTIONS	(E)
\triangle	SL96070	INSTRUCTIONS	(U) _av
12	_	LI BATTERY	CR2032 or equivalent
16	_	PLASTIC BAG	
17	_	SAFETY GUIDE	
18	_	SERVICE INFORMATION CARD	
19	_	WARANTY CARD	
20	_	PLASTIC BAG	